

INFORMATION HANDOUT

PERMITS

CENTRAL VALLEY FLOOD PROTECTION PERMIT

US ARMY CORP OF ENGINEERS PERMIT (404)

REGIONAL WATER QUALITY CONTROL BOARD PERMIT (401)

STATE DEPARTMENT FISH AND GAME PERMIT (1602)

RECLAMATION DISTRICT No. 1608 PERMIT

SAN JOAQUIN COUNTY FLOOD CONTROL ENDORSEMENT LETTER

UNITED STATES COAST GUARD BRIDGE PERMIT

MATERIALS INFORMATION

ASBESTOS AND LEAD CONTAINING PAINT SURVEY BY GEOCON
CONSULTANTS IN SEPTEMBER 2009

LIMITED SITE INVESTIGATION REPORT FOR THE INTERSTATE 5 NORTH
STOCKTON WIDENING PROJECT, PACKAGE 1 – CHARTER WAY
TO NORTH HAMMER LANE PREPARED BY GEOCON.

FOUNDATION REPORTS BY PARIKH CONSULTANTS, INC. OCTOBER 15, 2009
FOR THE FOLLOWING STRUCTURES:

COUNTRY CLUB BLVD (Br. No. 29-0189)
MICHIGAN AVE. UC (Br. No. 29-0190)
ALPINE AVE. UC (Br. No. 29-0191)
TELEGRAGH AVE. UC (Br. No. 29-0192)
CALVERAS RIVER BRIDGE (Br. No. 29-0174)
EBMUD AQUEDUCT UC (Br. No. 29-0226)
MARCH LANE UC (Br. No. 29-0193)
FOURTEEN MILE SLOUGH (Br. No. 29-0175)
SWAIN ROAD UC (Br. No. 29-0215)
BENJAMIN HOLT DRIVE UC (Br. No. 29-0194)
FIVE MILE SLOUGH CULVERT

CENTRAL VALLEY FLOOD PROTECTION BOARD

3310 El Camino Ave., Rm. 151
SACRAMENTO, CA 95821
(916) 574-0609 FAX: (916) 574-0682
PERMITS: (916) 574-0685 FAX: (916) 574-0682

2010 APR 30 PM 1 43



APR 29 2010

Permit No. 18563 BD

California Department of Transportation District 10
1976 East Charter Way
East Dr. Martin Luther King Jr. Blvd.
Stockton, California 95205

Enclosed is your approved Central Valley Flood Protection Board Encroachment Permit Conditions.

Under the Standard General Condition Four (4) of the permit, you are required to accomplish the work under direction and supervision of the Department of Water Resources; therefore, you must advise the Department at 3310 El Camino Avenue, Sacramento, California 95821, attention Lorraine Pendlebury, telephone (916) 574-0609, at least ten days prior to starting your project. An addressed postcard is enclosed for your convenience.

Please note that the permit grants the work proposed in your application. This permit, in addition to the twelve (12) standard conditions, includes special conditions, which may place limitations on or require modifications to your project. You are advised to read all conditions prior to starting the project. Commencing any work under this permit shall constitute an acceptance of the provisions of the permit and an agreement to perform accordingly. This permit does not relieve you from the responsibility for obtaining authorization from any State, local, or federal agencies for your proposed project.

Please refer to your permit number when communicating with this office. For further information, contact Michael Petersen at (916) 574-0685.

Sincerely,

A handwritten signature in dark ink, appearing to read "Jon Yego".

FOR Jon Yego, Chief
Floodway Protection Section
Division of Flood Management

Enclosure

STATE OF CALIFORNIA
THE RESOURCES AGENCY
THE CENTRAL VALLEY FLOOD PROTECTION BOARD

PERMIT NO. 18563 BD

This Permit is issued to:

California Department of Transportation District 10
1976 East Charter Way
East Dr. Martin Luther King Jr. Blvd.
Stockton, California 95205

To construct median widening to add two additional inside lanes between the existing north and southbound Interstate 5 bridges and one outside lane on each bridge, supported by 7 spans on cast-in-drilled-hole (CIDH) reinforced concrete piles over Fourteen Mile Slough. The project is located in Stockton at the Interstate 5 Fourteen Mile Slough bridge crossing (Section 20, 29, T2N, R6E, MDB&M, San Joaquin County Flood Control and Water Conservation District, Fourteen Mile Slough, San Joaquin County).

NOTE: Special Conditions have been incorporated herein which may place limitations on and/or require modification of your proposed project as described above.

(SEAL)

APR 29 2010

Dated: _____

Jay S. Puria

Executive Officer

GENERAL CONDITIONS:

ONE: This permit is issued under the provisions of Sections 8700 – 8723 of the Water Code.

TWO: Only work described in the subject application is authorized hereby.

THREE: This permit does not grant a right to use or construct works on land owned by the Sacramento and San Joaquin Drainage District or on any other land.

FOUR: The approved work shall be accomplished under the direction and supervision of the State Department of Water Resources, and the permittee shall conform to all requirements of the Department and The Central Valley Flood Protection Board.

FIVE: Unless the work herein contemplated shall have been commenced within one year after issuance of this permit, the Board reserves the right to

change any conditions in this permit as may be consistent with current flood control standards and policies of The Central Valley Flood Protection Board.

SIX: This permit shall remain in effect until revoked. In the event any conditions in this permit are not complied with, it may be revoked on 15 days' notice.

SEVEN: It is understood and agreed to by the permittee that the start of any work under this permit shall constitute an acceptance of the conditions in this permit and an agreement to perform work in accordance therewith.

EIGHT: This permit does not establish any precedent with respect to any other application received by The Central Valley Flood Protection Board.

NINE: The permittee shall, when required by law, secure the written order or consent from all other public agencies having jurisdiction.

TEN: The permittee is responsible for all personal liability and property damage which may arise out of failure on the permittee's part to perform the obligations under this permit. If any claim of liability is made against the State of California, or any departments thereof, the United States of America, a local district or other maintaining agencies and the officers, agents or employees thereof, the permittee shall defend and shall hold each of them harmless from each claim.

ELEVEN: The permittee shall exercise reasonable care to operate and maintain any work authorized herein to preclude injury to or damage to any works necessary to any plan of flood control adopted by the Board or the Legislature, or interfere with the successful execution, functioning or operation of any plan of flood control adopted by the Board or the Legislature.

TWELVE: Should any of the work not conform to the conditions of this permit, the permittee, upon order of The Central Valley Flood Protection Board, shall in the manner prescribed by the Board be responsible for the cost and expense to remove, alter, relocate, or reconstruct all or any part of the work herein approved.

SPECIAL CONDITIONS FOR PERMIT NO. 18563 BD

THIRTEEN: All work approved by this permit shall be in accordance with the submitted drawings and specifications except as modified by special permit conditions herein. No further work, other than that approved by this permit, shall be done in the area without prior approval of the Central Valley Flood Protection Board.

FOURTEEN: The permittee shall maintain the permitted encroachment(s) and the project works within the utilized area in the manner required and as requested by the authorized representative of the Department of Water Resources or any other agency responsible for maintenance.

FIFTEEN: The permittee shall contact the Department of Water Resources by telephone, (916) 574-0609, and submit the enclosed postcard to schedule a preconstruction conference. Failure to do so at least 10 working days prior to start of work may result in delay of the project.

SIXTEEN: The permittee shall provide supervision and inspection services acceptable to the Central Valley Flood Protection Board. A professional engineer registered in the State of California shall certify that all work was inspected and performed in accordance with submitted drawings, specifications, and permit conditions.

SEVENTEEN: The Central Valley Flood Protection Board and Department of Water Resources shall not be held liable for any damages to the permitted encroachment(s) resulting from flood fight, operation, maintenance, inspection, or emergency repair.

EIGHTEEN: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted encroachment(s) if removal, alteration, relocation, or reconstruction is necessary as part of or in conjunction with any present or future flood

control plan or project or if damaged by any cause. If the permittee does not comply, the Central Valley Flood Protection Board may remove the encroachment(s) at the permittee's expense.

NINETEEN: The permittee should contact the U.S. Army Corps of Engineers, Sacramento District, Regulatory Branch, 1325 J Street, Sacramento, California 95814, telephone (916) 557-5250, as compliance with Section 10 of the Rivers and Harbors Act and/or Section 404 of the Clean Water Act may be required.

TWENTY: The permittee shall be responsible for repair of any damages to the non-project levees and other flood control facilities due to construction, operation, or maintenance of the proposed project.

TWENTY-ONE: The permittee is responsible for all liability associated with construction, operation, and maintenance of the permitted facilities and shall defend and hold harmless the State of California, or any departments thereof, from any liability or claims of liability associated therewith.

TWENTY-TWO: If the project, or any portion thereof, is to be abandoned in the future, the permittee or successor shall abandon the project under direction of the Central Valley Flood Protection Board and Department of Water Resources, at the permittee's or successor's cost and expense.

TWENTY-THREE: No construction work of any kind shall be done during the flood season from November 1 to April 15 without prior approval of the Central Valley Flood Protection Board.

TWENTY-FOUR: All cleared trees and brush shall be completely burned or removed from the floodway, and downed trees or brush shall not remain in the floodway during the flood season from November 1 to April 15.

TWENTY-FIVE: The new bridge sections shall have at least the same waterway area and vertical clearance as the existing bridge sections.

TWENTY-SIX: The soffit of the new bridge sections shall be no lower than that of the existing bridge sections.

TWENTY-SEVEN: Bridge piers and bents placed within the floodway to support a widened portion of an existing bridge shall be constructed in line with the existing bents and piers.

TWENTY-EIGHT: Prior to construction the permittee shall install an X, Y, Z axis based coordinate monitoring system to monitor the levee before, during and after all pile driving activities.

TWENTY-NINE: Temporary staging, formwork, stockpiled material, equipment, and temporary buildings shall not remain in the floodway during the flood season from November 1 to April 15.

THIRTY: The temporary trestle piling shall be completely removed and voids grouted or removed to at least 1 foot below the natural ground line and at least 3 feet below the bottom of the low-water channel.

THIRTY-ONE: Trees, brush, sediment, and other debris shall be kept cleared from the bridge site and disposed of outside the floodway to maintain the design flow capacity and flowage area.

THIRTY-TWO: All fencing, gates and signs removed during construction of this project shall be replaced in kind and at the original locations. If it is necessary to relocate any fence, gate or sign, the permittee is required to obtain written approval from the Central Valley Flood Protection Board prior to installation at a new location.

THIRTY-THREE: All temporary fencing, gates and signs shall be removed upon completion of the project.

THIRTY-FOUR: Backfill material for excavations within the levee sections shall be placed in 4- to 6-inch layers and compacted to at least the density of the adjacent, firm, undisturbed material.

THIRTY-FIVE: Density tests by a certified materials laboratory will be required to verify compaction of backfill within the levee sections.

THIRTY-SIX: The stability of the levees shall be maintained at all times during construction.

THIRTY-SEVEN: The permittee shall be responsible for all damages due to settlement, consolidation, or heave from any construction-induced activities.

THIRTY-EIGHT: In the event existing revetment on the levee sections or channel banks is disturbed or displaced, it shall be restored to its original condition upon completion of the proposed installation.

THIRTY-NINE: All debris generated by this project shall be disposed of outside the floodway and off the levee sections.

FORTY: The project site shall be restored to the condition that existed prior to start of work.

FORTY-ONE: In the event that levee or bank erosion injurious to the adopted plan of flood control occurs at or adjacent to the permitted encroachment(s), the permittee shall repair the eroded area and propose measures, to be approved by the Central Valley Flood Protection Board, to prevent further erosion.

FORTY-TWO: If the permitted result(s) in an adverse hydraulic impact, the permittee shall provide appropriate mitigation measures, to be approved by the Central Valley Flood Protection Board, prior to implementation of mitigation measures.

FORTY-THREE: Upon completion of the project, the permittee shall submit as-built drawings to: Department of Water Resources, Flood Project Inspection Section, 3310 El Camino Avenue, Suite LL30, Sacramento, California 95821.

FORTY-FOUR: The letter from the Department of the Army dated March 26, 2010, which is attached to this permit as Exhibit A is in reference to this project.

EXHIBIT A



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. Army Engineer District, Sacramento
Corps of Engineers
1325 J Street
Sacramento, California 95814-2922

March 26, 2010

Flood Protection and Navigation Section (18563)

Mr. Jay Punia, Executive Officer
Central Valley Flood Protection Board
3310 El Camino Ave. Rm. LL40
Sacramento, California 95821

Dear Mr. Punia:

We have reviewed a permit application by Caltrans District 10 (application number 18563). This project includes widening the existing Interstate 5 bridge over Fourteen Mile Slough. The proposed work is located in Stockton, just south of Benjamin Holt Drive on Interstate 5 at 37.9990°N 121.3490°W NAD83, San Joaquin County, California.

The District Engineer has no comments or recommendations regarding flood control because the proposed work does not affect a federally constructed project.

A file (SPK-2009-00460) has been opened because a Section 10 and/or Section 404 permit may be required. Please advise the applicant to contact the U.S. Army Corps of Engineers, Sacramento District, Regulatory Division, 1325 J Street, Sacramento, California 95814, telephone (916) 557-5250.

A copy of this letter is being furnished to Mr. Daniel Meyersohn, Acting Chief, Flood Project Integrity and Inspection Branch, 3310 El Camino Avenue, Suite LL30, Sacramento, CA 95821.

Sincerely,

A handwritten signature in black ink that reads "Meegan G. Nagy".

Meegan G. Nagy, P.E.
Chief, Flood Protection and Navigation Section



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO
CORPS OF ENGINEERS
1325 J STREET
SACRAMENTO CA 95814-2922

May 14, 2010

Regulatory Division (SPK-2009-00460)

Ms. Virginia Strohl
State of California
Department of Transportation
2015 E. Shields Avenue, Suite 100
Fresno, California 93726-5428

Dear Ms. Strohl:

We are responding to your April 26, 2010 request for a Department of the Army permit for the I-5 North Stockton Roadway Widening project. This approximately 7.5 mile-long project involves activities, including discharges of dredged or fill material, in waters of the United States to improve traffic operations and congestion along I-5. The project is located near Stockton, in Section 10, Township 2 North, Range 6 East, Latitude 38.029191°, Longitude -121.312112°, MDB&M Survey, San Joaquin County, California.

Based on the information you provided, the proposed activity, resulting in the permanent loss of approximately 0.0127 acres and temporary impacts to approximately 1.148 acres of waters of the United States, including wetlands, is authorized by Nationwide Permit Number (NWP) 14 Linear Transportation Projects. However, until Section 401 Water Quality Certification for the activity has been issued or waived, our authorization is denied without prejudice. Once you have provided us evidence of water quality certification, the activity is authorized and the work may proceed subject to the conditions of certification and the Nationwide Permit. Your work must comply with the general terms and conditions listed on the enclosed Nationwide Permit information sheets and the following special conditions:

Special Conditions

1. This permit is contingent upon the permittee applying for and being issued a Section 401 Water Quality Certification. Evidence of a water quality certification must be submitted to this office, prior to commencing work in waters/wetlands. All terms and conditions of the Section 401 Water Quality Certification are expressly incorporated as conditions of this permit.

2. To mitigate at a 1:1 ratio for the permanent loss of 0.0127 acres and 0.5:1 ratio for temporary loss of 1.148 acres of waters of the United States, including indirect effects, you shall purchase 0.048 acres of wetland credits and 0.56 acres of open water credits at a Corps approved mitigation bank. The selected mitigation bank shall include the area of the permitted project within its service area. Evidence of this purchase shall be provided to this office prior to proceeding with any activity otherwise authorized by this permit. A list of approved mitigation banks has been included for your reference.

3. We understand the State of California, Department of Transportation (Caltrans) is the National Environmental Policy Act (NEPA) lead federal agency for this project, and as such, will ensure the authorized work complies with the National Environmental Policy Act, the Endangered Species Act, the National Historical Preservation Act and any other applicable federal laws. This authorization is contingent upon the permittee implementing all actions necessary to comply with these requirements.

4. This Corps permit does not authorize you to take an endangered species, in particular giant garter snake (*Thamnophis gigas*), delta smelt (*Hypomesus transpacificus*), or designated critical habitat. In order to legally take a listed species, you must have separate authorization under the Endangered Species Act (e.g., an Endangered Species Act Section 10 permit, or a Biological Opinion under Endangered Species Act Section 7, with "incidental take" provisions with which you must comply). To ensure your project complies with the Federal Endangered Species Act, you must implement all of the mitigating measures identified in the enclosed U.S. Fish and Wildlife Service letter of concurrence (81420-2009-F-0638-1, dated March 3, 2010), including those ascribed to the California Department of Transportation (Caltrans) therein. If you are unable to implement any of these measures, you must immediately notify the appropriate Caltrans office, the U.S. Army Corps of Engineers Regulatory office, and the appropriate U.S. Fish and Wildlife office so that Caltrans acting as the lead Federal agency for this project may consult as appropriate, prior to initiating the work, in accordance with Federal law.

5. To insure your project complies with the Federal Endangered Species Act, you must implement all of the mitigating measures identified in the enclosed National Marine Fisheries Service letter of concurrence (2009/00440, dated April 15, 2009), including those ascribed to Caltrans therein. If you are unable to implement any of these measures, you must immediately notify the appropriate Caltrans office, the U.S. Army Corps of Engineers Regulatory office, and the appropriate National Marine Fisheries Service office so that Caltrans acting as the lead Federal agency for this project may consult as appropriate, prior to initiating the work, in accordance with Federal law.

6. All equipment staging, including Temporary Construction Areas (TCA's), shall take place within Caltrans approved areas within the project boundary. Prior to construction implementation, you shall ensure all equipment staging, TCA's, demolition and excavation, off pavement detours, borrow and fill areas, and upland disposal areas have been evaluated under National Environmental Policy Act, Section 401 and 404 of the Clean Water Act, Section 7 of the Endangered Species Act and Section 106 of the National Historical Preservation Act and all required permits have been obtained.

7. To prevent unauthorized fills and unforeseen impacts, you shall, prior to proceeding with any activity otherwise authorized by this permit, install fencing and appropriate signage around the entire perimeter of avoided waters of the U.S. within the project area. All fencing surrounding avoidance areas shall allow unrestricted visibility of these areas to discourage vandalism, destruction, or disturbance. An example of fencing includes chain link or similar type.

8. You shall employ Best Management Practices (BMP's) to avoid and minimize environmental impacts. Temporary fills, dams, and water diversion structures must be removed in their entirety and the affected areas returned to pre-construction conditions and elevations.

Temporarily impacted areas must be restored to their pre-existing condition and vegetated with native trees, shrubs and/or seed mix.

9. To ensure avoidance and minimization measures are successful and temporary fills have been removed, you shall take pre-construction, numbered and dated, photographs of the affected **water features** seven (7) days **prior** to construction impact. You shall take post-construction, numbered and dated, photographs of the affected **water features** within seven (7) days **after** construction impact. You shall submit the photographs within 30 days after construction completion. The camera positions and view angles of pre- and post-photographs shall be identical.

10. You shall follow the specifications and standards described in the Storm Water Pollution Prevention Plan (SWPPP) and/or Water Pollution Control Plan (WPCP), to prevent erosion and sedimentation during and after construction. Construction work within waters of the United States shall be performed when the flows are at their seasonal low or when they have ceased and the areas are dry, typically April 15 - October 15 (outside the rainy season work window).

11. The Permittee is responsible for all work authorized herein. To ensure that involved contractors are aware of the terms, conditions and limitations of this authorization, the permittee shall post a copy of the permit authorization and associated drawings at the project site during all phases of construction to ensure that contractors are aware of the terms and conditions of this authorization.

12. No activity may cause more than a minimal adverse effect on navigation. Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittees' expense on authorized facilities or structures in navigable waters of the United States.

13. You shall notify the Sacramento District, Regulatory Division Office of the **start** of the authorized work within seven (7) calendar days of initiating construction activities.

14. You must allow representatives from the Corps of Engineers to inspect the authorized activity and any mitigation, preservation, or avoidance areas at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

15. You must sign the enclosed *Compliance Certification Form* and return it to this office within 30 days **after** completion of the authorized work.

This verification is valid for two years from the date of this letter or until the Nationwide Permit is modified, reissued, or revoked, whichever comes first. All of the existing NWPs are scheduled to be modified, reissued, or revoked prior to March 18, 2012. It is incumbent upon you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant NWP is modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. Failure to comply with the General Conditions of this

Nationwide Permit, or the project-specific Special Conditions of this authorization, may result in the suspension or revocation of your authorization.

We appreciate your feedback. At your earliest convenience, please tell us how we are doing by completing the customer survey on our website under *Customer Service Survey*.

Please refer to identification number SPK-2009-00460 in any correspondence concerning this project. If you have any questions, please contact Ms. Leah Fisher at our California South Branch Office, 1325 J Street, Room 1480, Sacramento, California 95814-2922, email *Leah.M.Fisher@usace.army.mil*, or telephone 916-557-6639. For more information regarding our program, please visit our website at *www.spk.usace.army.mil/regulatory.html*.

Sincerely,

Paul M. Maniccia
Chief, California South Branch

Enclosures:

Copies Furnished without enclosures:

California Regional Water Quality Control Board, Storm Water and Water Quality Certification Unit,
Central Valley Region, 11020 Sun Center Drive #200, Rancho Cordova, California 95670-6114

U.S. Fish and Wildlife Service, Endangered Species Division, 2800 Cottage Way, Suite W2605,
Sacramento, California 95825-3901

National Marine Fisheries Service, Regional Administrator, 650 Capitol Mall, Suite 8-300,
Sacramento, California 95814-4706

California Department of Fish and Game, 1701 Nimbus Road, Rancho Cordova, California 95670-
4504

Central Valley Flood Protection Board, 3310 El Camino Avenue, Room LL40, Sacramento, California
95821

U.S. Environmental Protection Agency, Region IX, Wetlands Regulatory Office (WTR-8), 75
Hawthorne Street, San Francisco, California, 94105-3901

U.S. Coast Guard, Eleventh Coast Guard District, Bridge Section, Building 50-2, C.G. Island,
Alameda, California 94501-5100

COMPLIANCE CERTIFICATION

Permit File Number: SPK-2009-00460

Nationwide Permit Number: NWP 14 Linear Transportation Projects.

Permittee: Virginia Strohl
California Department of Transportation
2015 E. Shields Avenue, Suite 100
Fresno, California 93726-5428

County: San Joaquin

Date of Verification: May 14, 2010

Within 30 days after completion of the activity authorized by this permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers
Regulatory Division
1325 J Street, Room 1480
Sacramento, California 95814-2922
Leah.M.Fisher@usace.army.mil

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with the terms and conditions of the permit your authorization may be suspended, modified, or revoked. If you have any questions about this certification, please contact the Corps of Engineers.

* * * * *

I hereby certify that the work authorized by the above-referenced permit, including all the required mitigation, was completed in accordance with the terms and conditions of the permit verification.

Signature of Permittee

Date



California Regional Water Quality Control Board Central Valley Region

Katherine Hart, Chair

Linda S. Adams
Secretary for
Environmental
Protection

11020 Sun Center Drive #200, Rancho Cordova, California 95670-6114
Phone (916) 464-3291 • FAX (916) 464-4645
<http://www.waterboards.ca.gov/centralvalley>



Arnold
Schwarzenegger
Governor

2 July 2010

Virginia Strohl
California Department of Transportation
2015 East Shields, Suite 100
Fresno, CA 93726

**CLEAN WATER ACT §401 TECHNICALLY CONDITIONED WATER QUALITY
CERTIFICATION AND WASTE DISCHARGE REQUIREMENTS FOR DISCHARGE OF
DREDGED AND/OR FILL MATERIALS; I-5 NORTH STOCKTON CORRIDOR
IMPROVEMENTS, PACKAGE 1 PROJECT (WDID#5B39CR00184),
SAN JOAQUIN COUNTY**

This Order responds to your 28 January 2010 application submittal for Water Quality Certification for a highway improvement project permanently impacting approximately 0.0127 acre and temporarily impacting approximately 1.16 acres of waters of the United States.

WATER QUALITY CERTIFICATION STANDARD CONDITIONS:

1. This certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to §13330 of the California Water Code and §3867 of Title 23 of the California Code of Regulations (23 CCR).
2. This certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent certification application was filed pursuant to 23 CCR subsection 3855(b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. The validity of any non-denial certification action shall be conditioned upon total payment of the full fee required under 23 CCR §3833, unless otherwise stated in writing by the certifying agency.
4. Certification is valid for the duration of the described project. This certification is no longer valid if the project (as currently described) is modified, or coverage under Section 404 of the Clean Water Act has expired.

California Environmental Protection Agency

ADDITIONAL TECHNICALLY CONDITIONED CERTIFICATION CONDITIONS:

In addition to the four standard conditions, California Department of Transportation (Caltrans) shall satisfy the following:

1. Caltrans shall notify the Central Valley Water Quality Control Board (Central Valley Water Board) in writing 7 days in advance of the start of any in-water activities.
2. Except for activities permitted by the U.S. Army Corps under §404 of the Clean Water Act, soil, silt, or other organic materials shall not be placed where such materials could pass into surface water or surface water drainage courses.
3. All areas disturbed by project activities shall be protected from washout or erosion.
4. Caltrans shall maintain a copy of this Certification and supporting documentation (Project Information Sheet) at the Project site during construction for review by site personnel and agencies. All personnel (employees, contractors, and subcontractors) performing work on the proposed project shall be adequately informed and trained regarding the conditions of this Certification.
5. All temporarily affected areas will be restored to pre-construction contours and conditions upon completion of construction activities.
6. Caltrans shall perform surface water sampling: 1) When performing any in-water work; 2) In the event that project activities result in any materials reaching surface waters or; 3) When any activities result in the creation of a visible plume in surface waters. The following monitoring shall be conducted immediately upstream out of the influence of the project and 300 feet downstream of the active work area. Sampling results shall be submitted to this office within two weeks of initiation of sampling and every two weeks thereafter. The sampling frequency may be modified for certain projects with written permission from the Central Valley Water Board.

Parameter	Unit	Type of Sample	Frequency of Sample
Turbidity	NTU	Grab	Every 4 hours during in water work
Settleable Material	ml/l	Grab	Same as above.
Visible construction related pollutants	Observations	Visible Inspections	Continuous throughout the construction period

7. Activities shall not cause turbidity increases in surface water to exceed:
- (a) where natural turbidity is less than 1 Nephelometric Turbidity Units (NTUs), controllable factors shall not cause downstream turbidity to exceed 2 NTU;
 - (b) where natural turbidity is between 1 and 5 NTUs, increases shall not exceed 1 NTU;
 - (c) where natural turbidity is between 5 and 50 NTUs, increases shall not exceed 20 percent;
 - (d) where natural turbidity is between 50 and 100 NTUs, increases shall not exceed 10 NTUs;
 - (e) where natural turbidity is greater than 100 NTUs, increases shall not exceed 10 percent.

Except that these limits will be eased during in-water working periods to allow a turbidity increase of 15 NTU over background turbidity as measured in surface waters 300 feet downstream from the working area. In determining compliance with the above limits, appropriate averaging periods may be applied provided that beneficial uses will be fully protected. Averaging periods may only be assessed by prior permission of the Central Valley Water Board.

8. Activities shall not cause settleable matter to exceed 0.1 ml/l in surface waters as measured in surface waters 300 feet downstream from the project.
9. The discharge of petroleum products or other excavated materials to surface water is prohibited. Activities shall not cause visible oil, grease, or foam in the work area or downstream. Caltrans shall notify the Central Valley Water Board immediately of any spill of petroleum products or other organic or earthen materials.
10. Caltrans shall notify the Central Valley Water Board immediately if the above criteria for turbidity, settleable matter, oil/grease, or foam are exceeded.
11. Caltrans shall comply with all Department of Fish and Game 1600 requirements for the project.
12. Caltrans must obtain coverage under the NPDES General Permit for Storm Water Discharges Associated with Construction Activities issued by the State Water Resources Control Board for any project disturbing an area of 1 acre or greater.
13. The Conditions in this water quality certification are based on the information in the attached "Project Information." If the information in the attached Project Information is modified or the project changes, this water quality certification is no longer valid until amended by the Central Valley Water Board.
14. All areas temporarily disturbed during the I-5 Stockton Corridor Improvement Project shall be restored to pre-project conditions.
15. Raw cement, concrete or washing thereof, asphalt, drilling fluids or lubricants, paint or other coating material, oil or other petroleum products, or any other substances which could be hazardous to fish and wildlife resulting from or disturbed by project-related activities, shall be prevented from contaminating the soil and/or entering waters of the United States.

16. Construction, dewatering, and removal of the temporary cofferdam shall not create conditions where the above criteria for turbidity, settleable matter, oil/grease, or foam are exceeded. If water quality criteria are exceeded Caltrans shall notify the Board immediately.
17. When work in a flowing stream is unavoidable, the entire stream flow shall be diverted around or through the work area during the excavation and/or construction operations. Stream flow shall be diverted using gravity flow through temporary culverts/pipe or pumped around the work site with the use of hoses. When any dam or other artificial obstruction is being constructed, maintained, or placed in operation, sufficient water shall at all times be allowed to pass downstream to maintain aquatic life below the dam pursuant to Fish and Game Code section 5937. Any temporary dam or other artificial obstruction constructed shall only be built from clean materials such as sandbags, gravel bags, water dams, or clean/washed gravel which will cause little or no siltation.
18. All proposed in-channel work will be conducted between 15 June 2011 and 15 October 2011 and during daylight hours, thus no night time work is authorized within the channels of the Calaveras River, Five Mile Slough and Fourteen Mile Slough.
19. The mitigation measures specified in the mitigation monitoring and reporting program for the approved Environmental Impact Report for the project, as they pertain to hydrology and water quality impacts mitigation, are included in this Water Quality Certification, as required by California Public Resource Code Section 21081.6 and CEQA Guidelines, California Code of Regulations Section 15097.
20. Refueling of equipment within the floodplain or within 300-feet of a waterway is prohibited. If some critical equipment must be refueled within 300-feet of the waterway, strict spill prevention and countermeasures must be implemented to avoid spills. Refueling areas shall be provided with secondary containment including drip pans and/or placement of absorbent material. No hazardous materials, pesticides, fuels, lubricants, oils, hydraulic fluids, or other construction-related potentially hazardous substances should be stored within a floodplain or within 300-feet of a waterbody. Caltrans must perform frequent inspections of construction equipment prior to utilizing it near surface waters to insure leaks from the equipment are not occurring and are not a threat to water quality.
21. In the event of any violation or threatened violation of the conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under State law and section 401 (d) of the federal Clean Water Act. The applicability of any State law authorizing remedies, penalties, process, or sanctions for the violation or threatened violation constitutes a limitation necessary to ensure compliance with this Order.
 - a. If Caltrans or a duly authorized representative of the project fails or refuses to furnish technical or monitoring reports, as required under this Order, or falsifies any information provided in the monitoring reports, the applicant is subject to civil, for each day of violation, or criminal liability.
 - b. In response to a suspected violation of any condition of this Order, the Central Valley Water Board may require Caltrans to furnish, under penalty of perjury, any technical or monitoring reports the Central Valley Water Board deems appropriate,

provided that the burden, including cost of the reports, shall be in reasonable relationship to the need for the reports and the benefits to be obtained from the reports.

- c. Caltrans shall allow the staff(s) of the Central Valley Water Board, or an authorized representative(s), upon the presentation of credentials and other documents, as may be required by law, to enter the project premises for inspection, including taking photographs and securing copies of project-related records, for the purpose of assuring compliance with this certification and determining the ecological success of the project.
22. Caltrans shall provide a Notice of Completion (NOC) no later than 30 days after the project completion. The NOC shall demonstrate that the project has been carried out in accordance with the project's description (and any amendments approved). The NOC shall include a map of the project location(s), including final boundaries of any in situ restoration area(s), if appropriate, and representative pre and post construction photographs. Each photograph shall include a descriptive title, date taken, photographic site, and photographic orientation.

ADDITIONAL STORM WATER QUALITY CONDITIONS:

Caltrans shall also satisfy the following additional storm water quality conditions:

1. During the construction phase, Caltrans must employ strategies to minimize erosion and the introduction of pollutants into storm water runoff. These strategies must include the following:
 - (a) the Storm Water Pollution Prevention Plan (SWPPP) must be prepared during the project planning and design phases and implemented, as appropriate, before construction;
 - (b) an effective combination of erosion and sediment control Best Management Practices (BMPs) must be implemented and adequately working prior to the rainy season and during all phases of construction.
2. Caltrans must minimize the short and long-term impacts on receiving water quality from the I-5 North Stockton Corridor Improvements, Package 1 Project by implementing the following post-construction storm water management practices, as appropriate:
 - (a) reduce peak runoff flows;
 - (b) provide treatment BMPs to reduce pollutants in runoff;
 - (c) ensure existing waters of the State (e.g., wetlands, vernal pools, or creeks) are not used as pollutant source controls and/or treatment controls;
 - (d) preserve and, where possible, create or restore areas that provide important water quality benefits, such as riparian corridors, wetlands, and buffer zones;
 - (e) limit disturbances of natural water bodies and natural drainage systems caused by development (including development of roads, highways, and bridges);
 - (f) use existing drainage master plans or studies to estimate increases in pollutant loads and flows resulting from projected future development and require incorporation of structural and non-structural BMPs to mitigate the projected pollutant load increases in surface water runoff;

- (g) identify and avoid development in areas that are particularly susceptible to erosion and sediment loss, or establish development guidance that protects areas from erosion/ sediment loss;

REGIONAL WATER QUALITY CONTROL BOARD CONTACT PERSON:

Skyler Anderson, Environmental Scientist
11020 Sun Center Drive #200
Rancho Cordova, California 95670-6114
sanderson@waterboards.ca.gov
(916) 464-4849

WATER QUALITY CERTIFICATION:

I hereby issue an order certifying that any discharge from the Caltrans, I-5 North Stockton Corridor Improvements, Package 1 Project (WDID# 5B39CR00184) will comply with the applicable provisions of §301 ("Effluent Limitations"), §302 ("Water Quality Related Effluent Limitations"), §303 ("Water Quality Standards and Implementation Plans"), §306 ("National Standards of Performance"), and §307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Resources Control Board Water Quality Order No. 2003-0017 DWQ "Statewide General Waste Discharge Requirements For Dredged Or Fill Discharges That Have Received State Water Quality Certification (General WDRs)".

Except insofar as may be modified by any preceding conditions, all certification actions are contingent on (a) the discharge being limited and all proposed mitigation being completed in strict compliance with Caltrans' project description and the attached Project Information Sheet, and (b) compliance with all applicable requirements of the *Water Quality Control Plan for the Sacramento River and San Joaquin River Basins*, Fourth Edition, revised September 2009 (Basin Plan).


for Pamela C. Creedon
Executive Officer

Enclosure: Project Information

cc: See enclosure, page 10

PROJECT INFORMATION

Application Date: 28 April 2010

Applicant: Virginia Strohl
California Department of Transportation (Caltrans)
2015 East Shields, Suite 100
Fresno, CA 93726

Applicant Representatives: Charles Walbridge
Caltrans
2015 East Shields, Suite 100
Fresno, CA 93726

Project Name: I-5 North Stockton Corridor Improvements

Application Number: WDID# 5B39CR00184

U.S. Army Corps File Number: SPK-2009-00460

Type of Project: Highway Improvement Project

Project Location: Section 18-20 and 29, Township 2 North, Range 6 East, MDB&M.
Latitude: 37°00'50" and Longitude: -121°21'18"

County: San Joaquin County

Receiving Water(s) (hydrologic unit): San Joaquin River, San Joaquin Hydrologic Basin,
San Joaquin Delta Hydrologic Unit #544.00

Water Body Type: Wetlands, Streambed

Designated Beneficial Uses: *Water Quality Control Plan for the Sacramento River and San Joaquin River Basins*, Fourth Edition, revised September 2009 (Basin Plan) has designated beneficial uses for surface and ground waters within the region. Beneficial uses that could be impacted by the project include: Municipal and Domestic Water Supply (MUN); Agricultural Supply (AGR); Industrial Supply (IND), Hydropower Generation (POW); Groundwater Recharge, Water Contact Recreation (REC-1); Non-Contact Water Recreation (REC-2); Warm Freshwater Habitat (WARM); Cold Freshwater Habitat (COLD); and Wildlife Habitat (WILD).

Project Description (purpose/goal): The project site is located along the I-5 corridor through the City of Stockton, in San Joaquin County. The project extends from 0.2 miles south of Charter Way at the south end of Hammer Lane interchange at the north end. The proposed project consists of freeway widening along 7.4 miles of I-5.

There are three freeway water crossings that will be widened: Calaveras River, Fourteen Mile Slough, and Five Mile Slough. Two crossings are elevated and supported by piers; one is a box culvert that will be strengthened. The project is scheduled to begin in the summer of 2011. The overall project will last for two seasons; the in-water work will last for the first season only.

The proposed bridge widening at Calaveras River and Fourteen Mile Slough will require the installation of 49 piles into jurisdictional waters to widen the two bridges.

Bridge construction operations within aquatic habitats at the Calaveras River and Fourteen Mile Slough will be conducted with the use of temporary construction trestles. The temporary trestles will range from 30 to 40 feet wide and extend from existing top of bank to existing top of bank. These temporary piles within the water ways will be removed.

At Five Mile Slough, the proposed modification will consist of the removal and replacement of an approximately five-foot length of existing box culvert. Added strength is needed to accommodate additional fill on top of the box culvert for widening I-5 and for incorporation of sound walls. The length of the culvert, size of the openings, and thickness of the interior wall will remain the same.

Excavation for the construction of the box culvert and wing wall footings at Five Mile Slough will require dewatering of the slough and temporary access into the slough at each end of the culvert. The dewatering operation will be surface water to surface water, and water will be filtered before returning into the slough. Construction of temporary cofferdams and stream diversion will be required for dewatering the area in front of each head wall for a distance of 60 to 70 feet. Temporary cofferdams will be constructed of rock fill.

Preliminary Water Quality Concerns: Construction activities may impact surface waters with increased turbidity and settleable matter.

Proposed Mitigation to Address Concerns: Caltrans will implement Best Management Practices (BMPs) to control sedimentation and erosion. All temporary affected areas will be restored to pre-construction contours and conditions upon completion of construction activities. Caltrans will conduct turbidity and settleable matter testing during in-water work, stopping work if Central Valley Water Board Basin Plan criteria are exceeded or are observed.

Fill/Excavation Area: Approximately 128 cubic yards of permanent fill and 150 cubic yards of temporary fill will be placed into 0.096 acre of jurisdictional wetland and 1.0647 acres of un-vegetated streambed (for a total of 1.6107 acres of fill).

Dredge Volume: None

U.S. Army Corps of Engineers Permit Number: Nationwide Permit Nos.14, 25 and 33

Department of Fish and Game Streambed Alteration Agreement: Caltrans applied for a Streambed Alteration Agreement in April 2010.

Possible Listed Species: Swainson's hawk, giant garter snake, delta smelt, Central Valley steelhead

Status of CEQA Compliance: The California Department of Transportation approved the Environmental Impact Report and filed a Notice of Determination on 20 April 2010 (State Clearinghouse Number 2008102101).

As a Responsible Agency under California Environmental Quality Act (CEQA), the Central Valley Water Board reviewed the Environmental Impact Report and found that impacts to water quality were adequately addressed. Through implementation of Low Impact Development measures and mitigation at a minimum 1:1 ratio level, impacts to water quality will be mitigated to a less than significant level. Mitigation for impacts to water quality is discussed in the "Proposed Mitigation to Address Concerns" section above, and the "Compensatory Mitigation" section below.

The Environmental Impact Report found that all other impacts to water quality were less than significant. With regard to the remaining significant impacts identified in the Environmental Impact Report, the corresponding mitigation measures proposed are within the responsibility and jurisdiction of another public agency, and not within the jurisdiction of the Central Valley Water Board. Such impacts and mitigation measures do not relate to water quality or related nuisance, and therefore fall outside of the Central Valley Water Board's jurisdiction.

Compensatory Mitigation: Caltrans will mitigate at a 1:1 ratio for the permanent loss of 0.0127 acre and 0.5:1 ratio for temporary loss of 1.148 acres of waters of the United States, including indirect effects, Caltrans shall purchase 0.048 acre of wetland credits and 0.56 acres of open water credits at a United States Army Corps of Engineers approved mitigation bank. The selected mitigation bank shall include the area of the permitted project within its service area.

Additionally, in order to mitigate the loss of drainage ditch habitat on-site, the project applicants proposes to utilize the construction of detention basins as part of the storm water drainage plan to replace the functions of the drainage ditches.

Application Fee Provided: Total fees of \$3,1920.00 have been submitted to the Central Valley Water Board as required by 23 CCR §3833b(3)(A) and by 23 CCR §2200(e).

DISTRIBUTION LIST

U.S. Army Corp of Engineers
Sacramento District Office
Regulatory Section, Room 1480
1325 J Street
Sacramento, CA 95814-2922

(Electronic copy only) Dave Smith
Wetlands Section Chief (W-3)
United States Environmental Protection Agency

United States Fish & Wildlife Service
Sacramento Fish & Wildlife Office
2800 Cottage Way
Sacramento, CA 95825

Jeff Drongesen
Department of Fish and Game
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670

(Electronic copy only) Bill Orme
State Water Resources Control Board
401 Certification and Wetlands Unit Chief

Bill Jennings
CA Sportfishing Protection Alliance
3536 Rainier Avenue
Stockton, CA 95204

Charles Walbridge
Caltrans
2015 East Shields, Suite 100
Fresno, CA 93726

401 Amendment 1

From: Charles Walbridge [charles_walbridge@dot.ca.gov]
Sent: Wednesday, July 28, 2010 12:38 PM
To: Andrew Pochwatka; Rick Harlacher
Subject: Fw: I-5 Phase 1A Special Provisions 07-19-10

Regarding water sampling report.

Charles Walbridge
Associate Environmental Planner (Natural Science) Caltrans District 6
2015 E. Shields #100
Fresno, CA 93726
(559) 243-8201

----- Forwarded by Charles Walbridge/D06/Caltrans/CAGov on 07/28/2010 12:35 PM ---

To
"Skyler Anderson" <SAnderson@waterboards.ca.gov>
cc
"Charles Walbridge" <charles_walbridge@dot.ca.gov>

07/28/2010 12:34 PM
Subject RE: I-5 Phase 1A Special Provisions

Charles,

In regards to condition 6 of the WQC.

The Central Valley Water Board finds it acceptable that monitoring reports will be submitted on a monthly basis rather than ever two weeks as originally certified.

Thank you,

Skyler Anderson
Environmental Scientist
Central Valley Regional Water Quality Control Board 11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670
Phone: (916) 464-4849
Email: sanderson@waterboards.ca.gov

401 Amendment 2

From: Charles Walbridge [charles_walbridge@dot.ca.gov]
Sent: Wednesday, July 28, 2010 12:45 PM
To: Rick Harlacher
Cc: Zachary Parker; Scott Smith
Subject: Fw: I-5 Phase 1A Special Provisions 07-19-10

The 401 work window is amended below.

Charles Walbridge
Associate Environmental Planner (Natural Science) Caltrans District 6
2015 E. Shields #100
Fresno, CA 93726
(559) 243-8201

To
"Skyler Anderson" <SAnderson@waterboards.ca.gov>
cc
"Charles Walbridge" <charles_walbridge@dot.ca.gov>
07/28/2010 12:18 PM

Subject RE: I-5 Phase 1A Special Provisions

Charles,

With the information presented to me I hereby amend the Water Quality Certification
WDID#5B39CR00184, I-5 North Stockton Corridor Improvements, as detailed below.

Caltrans is authorized to conduct in-water construction activities through the night
between 1 June 2011 and 1 November 2011 within the channels of the Calaveras River,
Five Mile Slough and Fourteen Mile Slough.

Please attach this to your original Water Quality Certification.

Skyler Anderson
Environmental Scientist
Central Valley Regional Water Quality Control Board 11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670
Phone: (916) 464-4849
Email: sanderson@waterboards.ca.gov



DEPARTMENT OF FISH AND GAME

Bay Delta Region
Post Office Box 47
Yountville, California 94599
(707) 944-5520
www.dfg.ca.gov



August 17, 2010

Virginia Strohl
California Department of Transportation
2015 East Shields, Suite 100
Fresno, CA 93726

Subject: Final Lake or Streambed Alteration Agreement
Notification No. 1600-2010-0160-3
Interstate-5 North Stockton Corridor Improvements

Dear Ms. Strohl:

Enclosed is the final Streambed Alteration Agreement (“Agreement”) for the Interstate-5 North Stockton Corridor Improvement Project (“Project”). Before the Department may issue an Agreement, it must comply with the California Environmental Quality Act (“CEQA”). In this case, the Department, acting as a responsible agency, filed a notice of determination (“NOD”) on August 17, 2010, based on information contained in the Environmental Impact Report the lead agency prepared for the Project.

Under CEQA, filing a NOD starts a 30-day period within which a party may challenge the filing agency’s approval of the project. You may begin your project before the 30-day period expires if you have obtained all necessary local, state, and federal permits or other authorizations. However, if you elect to do so, it will be at your own risk.

If you have any questions regarding this matter, please contact Melissa Escaron, Staff Environmental Scientist, at (707) 339-0334 or mescaron@dfg.ca.gov.

Sincerely,

for Scott Wilson
Environmental Program Manager
Bay Delta Region

cc: Melissa Escaron
Warden Oldfather
Lieutenant Vielhauer

CALIFORNIA DEPARTMENT OF FISH AND GAME

BAY DELTA REGION

POST OFFICE BOX 47

YOUNTVILLE, CALIFORNIA 94599

(707) 944-5520

WWW.DFG.CA.GOV



STREAMBED ALTERATION AGREEMENT

NOTIFICATION NO. 1600-2010-0160-3

Calaveras River, Fourteen Mile Slough, Five Mile Slough

CALIFORNIA DEPARTMENT OF TRANSPORTATION

I-5 NORTH STOCKTON CORRIDOR IMPROVEMENTS

This Streambed Alteration Agreement (Agreement) is entered into between the California Department of Fish and Game (DFG) and California Department of Transportation (Permittee) as represented by Zachary Parker.

RECITALS

WHEREAS, pursuant to Fish and Game Code (FGC) section 1602, Permittee notified DFG on April 14, 2010 that Permittee intends to complete the project described herein.

WHEREAS, pursuant to FGC section 1603, DFG has determined that the project could substantially adversely affect existing fish or wildlife resources and has included measures in the Agreement necessary to protect those resources.

WHEREAS, Permittee has reviewed the Agreement and accepts its terms and conditions, including the measures to protect fish and wildlife resources.

NOW THEREFORE, Permittee agrees to complete the project in accordance with the Agreement

PROJECT LOCATION

The Project is located along Interstate-5 in the City of Stockton in San Joaquin County.

PROJECT DESCRIPTION

The California Department of Transportation (Caltrans) proposes to widen three bridges in their medians over Calaveras River, Fourteen Mile Slough, and Five Mile Slough along 7.4 miles of I-5 in San Joaquin County. The construction is scheduled for summer of 2011 and in-water work will last 1 season.

At the Calaveras River and Fourteen Mile Slough locations 49 24-inch cast-in-drill-hole (CIDH) piles will be installed. To install the CIDH piles temporary casings will be spun into the ground in 10-foot segments. An auger will then drill holes within the temporary casings. The soil will be removed and disposed of offsite. Water and slurry material will be pumped to baker tanks. Temporary trestle bridges supported on CIDH piles will be installed for access, they will be removed or cut below grade after construction. No water diversion or coffer dam will be necessary.

At Five Mile Slough a 5-foot length of existing box culvert will be removed and replaced, as will the existing head walls. Cofferdams and a stream diversion will be necessary to complete this work. The Permittee shall submit a coffer dam and diversion plan to the Department for approval prior to installation.

No riparian trees will be removed to build this project.

PROJECT IMPACTS

Existing fish or wildlife resources the project could substantially adversely affect include: This project will temporarily impact 4,051 square feet of riparian habitat and permanently impact 1,002 square feet of riparian habitat.

The adverse effects the project could have on the fish or wildlife resources identified above include: Temporarily increased erosion and sedimentation within the riparian corridor, removal of riparian vegetation, disturbance and mortality of riparian species.

MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES

1. Administrative Measures

Permittee (Caltrans and/or its Designee) shall meet each administrative requirement described below.

- 1.1 Documentation at Project Site. Permittee shall make the Agreement, any extensions and amendments to the Agreement, and all related notification materials and California Environmental Quality Act (CEQA) documents, readily available at the project site at all times and shall be presented to DFG personnel, or personnel from another state, federal, or local agency upon request.
- 1.2 Providing Agreement to Persons at Project Site. Permittee shall provide copies of the Agreement and any extensions and amendments to the Agreement to all persons who will be working on the project at the project site on behalf of Permittee, including but not limited to Resident Engineers, contractors, subcontractors, inspectors, and monitors.
- 1.3 Notification of Conflicting Provisions. Permittee shall notify DFG if Permittee determines or learns that a provision in the Agreement might conflict with a provision imposed on the project by another local, state, or federal agency. In that event, DFG shall contact Permittee to resolve any conflict.
- 1.4 Project Site Entry. Permittee agrees that DFG personnel may enter the project site at any time to verify compliance with the Agreement.

2. Avoidance and Minimization Measures

To avoid or minimize adverse impacts to fish and wildlife resources identified above, Permittee (Caltrans and/or its Designee) shall implement each measure listed below.

- 2.1 Permittee shall designate a biologist to conduct a pre-construction survey for sensitive species. The Designated Biologist shall be approved by DFG. If construction activities stop for a period of one week or more, a new pre-construction survey shall be completed no more than 24 hours prior to the re-initiation of construction activities.
- 2.2 Permittee shall provide to DFG for approval, a Riparian Mitigation Plan to offset impacts associated with the disturbance and loss of riparian habitat resulting from the proposed project.

- 2.3 Permittee shall conduct all work within riparian zones shall be limited to the period between July 1 and November 1.
- 2.4 Permittee shall submit a stream diversion and coffer dam plan to the Department for approval at least 10 days prior to installation.
- 2.5 Permittee shall properly implement measures consistent with the current Caltrans Construction Site Best Management Practices and Storm Water Pollution Prevention Plan.
- 2.6 Permittee shall conduct all work according to the project description stated above as well as the plans submitted to DFG that are not in conflict with the above stated project description. Permittee shall notify the DFG of any modifications made to the plans submitted to DFG that pertain to impacts to riparian corridors.
- 2.7 Permittee shall conduct a pre-construction bat survey of all structures to be affected by the project prior to start of construction. If bats are detected Permittee shall evict them from structures between February 15 and April 1, under the direction of the Designated Biologist and with approval from DFG. Exclusion devices shall be maintained in place until construction is completed. If the loss of the bat roost will be permanent Permittee shall prepare a replacement plan for approval by DFG prior to exclusion.
- 2.8 Permittee shall be in compliance with Migratory Bird Treaty Act (MBTA) and Fish and Game Code 3503. To avoid potential impacts to nesting migratory birds, Permittee shall remove vegetation or install exclusion measures during the time period of August 15 to February 15. If construction activities that have the potential to violate MBTA and Fish and Game Code 3503 are scheduled during the nesting season, focused surveys for active nests shall be conducted within 72 hours of said construction activities. If active nests are identified, a 50-foot no-work buffer for non-raptors and a 300-foot no-work buffer for raptors shall be established. If active nests are found, Caltrans shall consult with DFG and the United States Fish and Wildlife Service (USFWS) regarding appropriate action to comply with the MBTA of 1918 and the Fish & Game Code of California.
- 2.9 Permittee shall conduct a focused Swainson's hawk survey at least 14 days prior to start of construction within the biological study area (BSA) and a .25 mile radius of the BSA. If a nest is found within .25 miles of the BSA Permittee shall provide a potential disturbance evaluation to DFG for approval, and work shall not resume within .25 miles of the nest without DFG approval.

- 2.10 Permittee shall conduct a survey for tri-colored blackbirds. Permittee shall create a construction setback of 500 feet from colonial nesting areas. The setback shall be established and maintained until fledglings have left nests. Setback shall be marked by high visibility temporary fencing.
- 2.11 Permittee shall conduct focused surveys for burrowing owls shall be conducted within 15 days prior to the beginning of project activities. The project area plus 250 feet surrounding the project impact areas shall be surveyed for suitable habitat, burrows, and owls. Surveys shall occur two hours before to 1 hour after sunset or from 1 hour before to 2 hours after sunrise. Occupied burrows within 250 feet of project area shall not be disturbed during the nesting season, February 1 through August 31. After August 31, if occupied burrows are located within 160 feet of the project location, disturbance shall be kept to a minimum. If avoidance requirements cannot be met, on-site passive relocation should be implemented during the non-nesting season. If it is necessary to evict owls from burrows outside of the nesting season, then the Applicant will submit a mitigation plan for approval by the Department prior to burrow disturbance.
- 2.12 Permittee shall conduct a focused survey for Pacific pond turtles prior to construction. If pond turtles are found, Permittee shall submit a mitigation plan to DFG for approval prior to construction impacts. The mitigation plan shall address relocating pond turtles to suitable habitat outside of project impact areas, exclusion of turtles from impact areas, and long term enhancement of pond turtle habitat.
- 2.13 Permittee shall direct the Designated Biologist to conduct a worker environmental awareness training for giant garter snakes (GGS).
- 2.14 Permittee shall conduct a GGS survey 24 hours prior to construction. Permittee shall conduct a new survey if activities lapse for a period of 1 week or more. If a GGS is encountered Permittee shall stop work, contact US Fish and Wildlife Service and DFG and not resume work without approval from both agencies. Permittee shall keep dry any dewatered habitat for at least 15 consecutive days after April 15th and prior to excavating or filling of the dewatered habitat.
- 2.15 Permittee shall remove any temporary fill and construction debris, and wherever possible, restore disturbed areas to pre-project conditions per the recommendations from the Federal Highway Administration's Giant Garter Snake Programmatic Biological Opinion dated January 24, 2005.

- 2.16 Permittee shall allow any wildlife encountered during the course of construction to leave the construction area unharmed. This authorization does not allow for the trapping, capture, or relocation of any state or federally listed species
- 2.17 This authorization does not allow for the removal of any trees within the riparian zone. If the project changes such that tree removal becomes necessary, the Permittee shall consult with the DFG.
- 2.18 If any state or federal listed species, or state species of special concern, are observed during project surveys, Permittee shall submit California Natural Diversity Data Base (CNDDDB) forms to the CNDDDB for all preconstruction survey data within five working days of the sightings, and provide DFG Region 3 with copies of the CNDDDB forms and survey maps.
- 2.19 Permittee shall not use erosion control devices containing plastic mono-filament netting.
- 2.20 Permittee shall install, monitor and maintain high-visibility Environmentally Sensitive Area fencing. Fencing shall be monitored and maintained on a daily basis, to protect sensitive resources. Permittee shall remove as little vegetation as is necessary to conduct construction activities.
- 2.21 Permittee shall have readily available, at all times, plastic sheeting or visqueen and will cover exposed spoil piles and exposed areas to prevent these areas from losing loose soil into the stream. These covering materials shall be applied when it is evident rainy conditions threaten to erode loose soils into the stream.
- 2.22 Permittee shall not operate equipment or vehicles in water-covered portions of the stream, canals, ditches, or where wetland vegetation, riparian vegetation, or aquatic organisms may be destroyed, except as otherwise provided for in this Agreement and as necessary to complete authorized work.
- 2.23 Poured concrete shall be excluded from the wetted channel for a period of 30 days after it is poured. During that time the poured concrete shall be kept moist, and runoff from the concrete shall not be allowed to enter a live stream. Commercial sealants (e.g. Deep Seal, Elasto-Deck BT Reservoir Grade) may be applied to the poured concrete surface where difficulty in excluding water flow for a long period may occur. If sealant is used, water shall be excluded from the site until the sealant is dry.

- 2.24 All concrete surfaces, which will be ultimately exposed to surface water flow shall be sufficiently cured (30-60 days), or sealed with appropriate concrete sealer, prior to inundation to avoid leaching of lime into the receiving water. Compliance with this condition shall be demonstrated when the pH of applied water on the surface of exposed concrete is 9.5 pH units or less.
- 2.25 Permittee shall locate staging and storage areas for equipment, materials, fuels, lubricants and solvents, outside of irrigation and agricultural ditches and canals. Stationary equipment such as motors, pumps, generators, compressors and welders, located within or adjacent to irrigation or agricultural ditches will be positioned over drip pans. Any equipment or vehicles driven and/or operated within or adjacent to the irrigation or agricultural ditches will be checked and maintained daily, to prevent leaks of materials that if introduced to water could be deleterious to aquatic life. Vehicles will be moved away from the canals and ditches prior to refueling and lubrication.
- 2.26 Permittee shall prevent raw cement/concrete or washings thereof, asphalt, straw, paint or other coating material, oil or other petroleum products, or any other substances related to project activities which could be hazardous to aquatic life, wildlife, or riparian habitat from contaminating the soil and/or entering the waters of the State. Permittee may be subject to a citation for placing materials where they may enter a irrigation or agricultural ditches.
- 2.27 Permittee shall not dump any litter or construction debris within the irrigation or agricultural ditches. All such debris and waste shall be picked up daily and properly disposed of at an appropriate site.
- 2.28 Any materials placed in seasonally dry portions of canals or ditches, that could be washed downstream or could be deleterious to aquatic life, wildlife, or riparian habitat shall be removed by Permittee prior to inundation by high flows.

CONTACT INFORMATION

Any communication that Permittee or DFG submits to the other shall be in writing and any communication or documentation shall be delivered to the address below by U.S. mail, fax, or email, or to such other address as Permittee or DFG specifies by written notice to the other.

To Permittee:

Zachary Parker
2015 East Shields, Suite 100
Fresno, Ca
(559) 243-8196
Zachary_parker@dot.ca.gov

To DFG:

Department of Fish and Game
Bay Delta Region
7329 Silverado Trail
Attn: Lake and Streambed Alteration Program – Melissa Escaron
Notification #1600-2010-0160-R3
mescaron@dfg.ca.gov

LIABILITY

Permittee shall be solely liable for any violations of the Agreement, whether committed by Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents or contractors and subcontractors, to complete the project or any activity related to it that the Agreement authorizes.

This Agreement does not constitute DFG's endorsement of, or require Permittee to proceed with the project. The decision to proceed with the project is Permittee's alone.

SUSPENSION AND REVOCATION

DFG may suspend or revoke in its entirety the Agreement if it determines that Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, is not in compliance with the Agreement.

Before DFG suspends or revokes the Agreement, it shall provide Permittee written notice by certified or registered mail that it intends to suspend or revoke. The notice shall state the reason(s) for the proposed suspension or revocation, provide Permittee an opportunity to correct any deficiency before DFG suspends or revokes the Agreement, and include instructions to Permittee, if necessary, including but not limited to a directive to immediately cease the specific activity or activities that caused DFG to issue the notice.

ENFORCEMENT

Nothing in the Agreement precludes DFG from pursuing an enforcement action against Permittee instead of, or in addition to, suspending or revoking the Agreement.

Nothing in the Agreement limits or otherwise affects DFG's enforcement authority or that of its enforcement personnel.

OTHER LEGAL OBLIGATIONS

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from obtaining any other permits or authorizations that might be required under other federal, state, or local laws or regulations before beginning the project or an activity related to it.

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with other applicable statutes in the FGC including, but not limited to, FGC sections 2050 et seq. (threatened and endangered species), 3503 (bird nests and eggs), 3503.5 (birds of prey), 5650 (water pollution), 5652 (refuse disposal into water), 5901 (fish passage), 5937 (sufficient water for fish), and 5948 (obstruction of stream).

Nothing in the Agreement authorizes Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, to trespass.

AMENDMENT

DFG may amend the Agreement at any time during its term if DFG determines the amendment is necessary to protect an existing fish or wildlife resource.

Permittee may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by DFG and Permittee. To request an amendment, Permittee shall submit to DFG a completed DFG "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the corresponding amendment fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

TRANSFER AND ASSIGNMENT

This Agreement may not be transferred or assigned to another entity, and any purported transfer or assignment of the Agreement to another entity shall not be valid or effective,

unless the transfer or assignment is requested by Permittee in writing, as specified below, and thereafter DFG approves the transfer or assignment in writing.

The transfer or assignment of the Agreement to another entity shall constitute a minor amendment, and therefore to request a transfer or assignment, Permittee shall submit to DFG a completed DFG "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the minor amendment fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

EXTENSIONS

In accordance with FGC section 1605(b), Permittee may request one extension of the Agreement, provided the request is made prior to the expiration of the Agreement's term. To request an extension, Permittee shall submit to DFG a completed DFG "Request to Extend Lake or Streambed Alteration" form and include with the completed form payment of the extension fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5). DFG shall process the extension request in accordance with FGC 1605(b) through (e).

If Permittee fails to submit a request to extend the Agreement prior to its expiration, Permittee must submit a new notification and notification fee before beginning or continuing the project the Agreement covers (Fish & G. Code, § 1605, subd. (f)).

EFFECTIVE DATE

The Agreement becomes effective on the date of DFG's signature, which shall be: 1) after Permittee's signature; 2) after DFG complies with all applicable requirements under the California Environmental Quality Act (CEQA); and 3) after payment of the applicable FGC section 711.4 filing fee listed at http://www.dfg.ca.gov/habcon/ceqa/ceqa_changes.html.

TERM

This Agreement shall expire on December 31, 2013, unless it is terminated or extended before then. All provisions in the Agreement shall remain in force throughout its term. Permittee shall remain responsible for implementing any provisions specified herein to protect fish and wildlife resources after the Agreement expires or is terminated, as FGC section 1605(a)(2) requires.

AUTHORITY

If the person signing the Agreement (signatory) is doing so as a representative of Permittee, the signatory hereby acknowledges that he or she is doing so on Permittee's

behalf and represents and warrants that he or she has the authority to legally bind Permittee to the provisions herein.

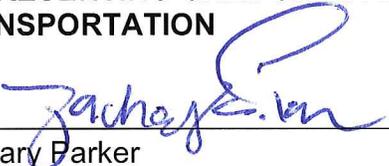
AUTHORIZATION

This Agreement authorizes only the project described herein. If Permittee begins or completes a project different from the project the Agreement authorizes, Permittee may be subject to civil or criminal prosecution for failing to notify DFG in accordance with FGC section 1602.

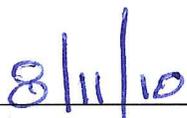
CONCURRENCE

The undersigned accepts and agrees to comply with all provisions contained herein.

**FOR ZACHARY PARKER
REPRESENTING CALIFORNIA DEPARTMENT OF
TRANSPORTATION**



Zachary Parker

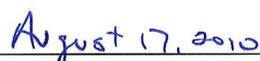


Date

FOR DEPARTMENT OF FISH AND GAME



Scott Wilson
Environmental Program Manager



Date

Prepared by: Melissa Escaron
Staff Environmental Scientist
July 17, 2010

I-5 NORTH STOCKTON WIDENING PROJECT
FIVE MILE SLOUGH CROSSING
RECLAMATION DISTRICT 1608 ENCROACHMENT PERMIT APPLICATION

FOR OFFICE USE

Index No. _____ Lot No. _____

APPLICATION FOR APPROVAL OF PLANS AND/OR ENCROACHMENT PERMIT

1. Application to the Reclamation District 1608 for approval to

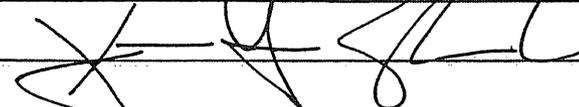
Please see attached "Permit Exhibit - Five Mile Slough (Box Culvert Modification) - Construction Description" for a complete description of the proposed work.

2. Please check exhibits accompanying application.

- a. Location or vicinity map, to scale, showing location of proposed work in relation to known topographic features, to permit visitation and/or inspection of work.
- b. A complete plan of the proposed work, to scale, showing dimensions, materials of construction, and relationship of the proposed work to adjacent or affected project features.
- c. A cross section of the levee, berm, and stream area with dimensions and elevations of the levee crown, levee toes, floodplain, low water levee, etc., with reference to the U.S. Geological Survey, U.S. Corps of Engineers, or other datum generally used within the locale.
- d. Profiles of existing or proposed levees, fills, or other obstructions in the stream or overflow area with reference to the U.S. Geological Survey, U.S. Corps of Engineers, or other datum generally used within the locale.

3. Please Print or Type:

Name of Applicant Kevin Sheridan, San Joaquin Council of Governments
Address-Zip Code 555 E. Weber Ave, Stockton, CA 95202
Telephone Number Office (209) 468-3913 Home _____

Signature  Date 8-31-09

4. Endorsement:

We, the Trustees of Reclamation District 1608 at its meeting held on the 2d day of October, 2009, hereby approve and give consent to the execution of the above plan and/or encroachment permit subject to the following conditions:

- Conditions listed on back of this form.
- Additional attached conditions.
- No conditions.

Date 10-2-09


Board of Trustees,
Reclamation District 1608

5. Name and address of owners of adjacent land parcels sharing a length of point of common boundary with the land upon which the contents of this application apply.

Name

Address

Zip Code

See "Supplemental Permit Information" for property owner information.

Conditions:

1. Comply with Reclamation District 1608 Levee Encroachment Standards.
2. Submit new application for any future encroachment within ten (10) feet of levee toe.

SEE ATTACHED ADDITIONAL CONDITIONS, IF BOX CHECKED ON FRONT PAGE

3. _____
4. _____
5. _____
6. _____
7. _____
- _____
- _____
- _____

**I-5 North Stockton Widening Project
Five Mile Slough and Fourteen Mile Slough Crossings
Reclamation District 1608 Encroachment Permit Requirements**

GENERAL PERMIT REQUIREMENTS

1. The RD1608 District Engineer shall have the right to inspect the construction of the Project at any time, and, in the event District's Engineer, in his or her sole discretion, deems the safety of the levees are in imminent danger of being jeopardized, he or she shall notify "permit holder and permit holders' principals and agents" ("Permit Holder") immediately and may order the portion of the Project that is jeopardizing the levee stopped; in which case, "Permit Holder" agrees to comply immediately. Any such order to stop work shall be in writing and shall be given to "Permit Holder" on-site representative and to its contractor. Reclamation District 1608 (District) and "Permit Holder" shall so provide in their directions to their consultants and/or contractors. If a written order to shut down any portion of the construction is issued by the District Engineer, then a meeting will be held on-site within twenty-four (24) hours to agree on the conditions under which construction can be restarted. If a disagreement arises between the District and "Permit Holder" at such meeting, then a third party engineer, designated by District and "Permit Holder" by mutual consent prior to the commencement of construction activities related to District's levee will be called in within twenty-four (24) hours of the conclusion of the meeting to arbitrate the dispute, and will render a decision which shall be binding on the parties within forty-eight (48) hours after conducting the arbitration. All costs of the work by the third party engineer shall be born entirely by "Permit Holder".
2. "Permit Holder" shall have a registered Civil Engineer with a geotechnical background monitor the elevation of the crown of the levees daily during periods when construction activity is occurring in the levee, and any and all water seepage, soil stability problems and changes in the levee crown elevation shall be immediately reported to the District's Engineer. "Permit Holder" shall additionally designate, prior to starting work, a registered geotechnical engineer who shall be available for consultation.
3. Neither District nor any officer, agent, contractor, servant, or employee thereof is responsible for any damage or liability to the extent that such damage or liability occurs by reason of anything done or omitted to be done by "Permit Holder" under or in connection with its activities under this Permit. It is understood and agreed that "Permit Holder" shall fully defend, indemnify and save harmless District and its officers, agents, contractors, servants, and employees from any and all claims, damages, suits, costs, expenses or actions of every name, kind and description brought for or on account of injury as defined in Government Code section 810.8 to the extent that such claims, suits or actions result from anything done or omitted to be done by "Permit Holder" under, arising out of, or in connection with its activities under this Permit, including, without limitation, the construction, operation, maintenance and existence of the Project. Additionally, "Permit Holder" hereby waives, as to District's Trustees, Engineer, Attorney, Consultants, Employees or Agents, any and all claims, damages, liability or losses arising from or related to, review, or approval of the plans, designs, specifications and other documents and data related to the Project. This waiver shall be binding on any and all successors to "Permit Holder".

4. "Permit Holder" shall maintain at all times during the period of construction and for a period of twelve (12) months after completion of construction of the Project, comprehensive general liability insurance with a combined single limit of at least Five Million (\$5,000,000.00) Dollars, or an owner— controlled insurance coverage program with equivalent or better coverage. Said insurance shall be placed with a reputable surety, shall provide for contractual liability coverage so as to insure applicant's obligations for indemnification as provided in this Permit and shall cover damages due to flooding, seepage, levee instability, and levee subsidence. A copy of the policy establishing such insurance shall be provided to District upon or prior to commencement of construction of the Project. Said policy shall name District, its Board of Trustees, officers, contractors, employees, servants, and agents' additional insureds.
5. This Permit shall be subject to termination by District's Board of Trustees upon failure of "Permit Holder" to adhere to the terms and conditions provided above and shall automatically terminate if construction on the Project has not been commenced within 6 months of the contract award date currently specified by the "Permit Holder".
6. "Permit Holder" shall reimburse District for all District's Costs associated with the Project; provided that, if such reimbursement shall exceed \$50,000 further agreement by the parties relative to reimbursement shall be required. District costs shall include such items as evaluating, reviewing and processing Project plans, changes, specifications, other data or documents, and inspections by District Engineer and Levee Superintendent. District shall inform "Permit Holder" whenever such expenses exceed \$50,000.
7. District shall provide to "Permit Holder" a monthly accounting of all Costs incurred, to be sent to "Permit Holder" by the 15th of each month.
8. Unless otherwise notified in writing, "Permit Holder" shall deliver payment to the District at the following address:

Reclamation District 1608
P.O. Box 4857
Stockton, CA 95204-4857

9. "Permit Holder" hereby waives, as to District, District's Engineer, and its or their consultants, employees or agents, any and all claims, damages, liability or losses arising from or related to, review or approval of the plans, designs, specifications and other documents and data related to the Project by District's Engineer or its consultants, employees or agents. This waiver shall be binding on any and all successors to "Permit Holder".

INFORMATION TO BE SUBMITTED FOR REVIEW PRIOR TO APPROVAL OF PERMIT

The Caltrans I-5 North Stockton Widening Project will impact Reclamation District (RD)1608 levees at Five Mile Slough and Fourteen Mile Slough. These levees provide important flood protection for the Reclamation District 1608 area. Prior to granting an encroachment permit or any easement to Caltrans for extension of the box culvert at Five Mile Slough and widening of the bridge at Fourteen Mile Slough, the District will require that Caltrans provide engineering evaluations and analyses demonstrating that both the temporary construction and long-term improvements will not impact the integrity of the levee and its critical life-safety flood protection function. Specific levee issues, as appropriate, to be analyzed include:

1. Settlement
2. Cracking
3. Slope stability
4. Through-seepage potential
5. Underseepage potential
6. Erosion
7. Hydraulic conveyance capacity of channel section

Any impacts, either temporary or long-term, to the integrity of the levee must be accompanied by appropriate mitigation measures. The evaluations and analyses must be stamped by a registered, professional engineer licensed in the State of California. Methods of analysis and criteria to follow those established by the United States Army Corps of Engineers, the Federal Emergency Management Agency, and the California Department of Water Resources. Pertinent geotechnical information used for the analyses and evaluations must be appended to the evaluations.

SPECIFIC PERMIT REQUIREMENTS ASSOCIATED WITH CONSTRUCTION OF PROJECT

Five Mile Slough

1. All in-channel and levee work to be completed NLT 1 November (beginning of flood season).
2. Bypass pump capacity to be sufficient to carry maximum potential flow in Five Mile Slough during construction period.
3. Embankment cofferdam to be used in lieu of sheet pile cofferdam.
4. Remove existing levee riprap material in areas where construction is to occur and stockpile; replace (on appropriate bedding material) following re-establishment of levee slope at completion of construction.
5. Levee cross section and integrity to be fully restored when backfilling around extended headwalls of box culvert. Levee reconstruction procedures to include the following:
 - a. Remove loose levee material and cut stair step benches into exposed levee material (8 inch high steps).
 - b. Place levee backfill material in 8 inch compacted lifts.
 - c. Compact levee material to a minimum 95% (ASTM D 698) at the optimum moisture content (OMC). The maximum allowable range in placement moisture contents should be from OMC minus 2% to OMC plus 2%.
 - d. Levee backfill material to meet the following criteria:
 - Have at least 20% fines (material passing the #200 sieve)
 - The fines should have a Plasticity Index at least 8 and less than 40
 - The fines should have a maximum Liquid Limit of 45
 - e. Match preexisting levee slopes in area adjacent to headwalls.
 - f. Place stockpiled riprap material with appropriate bedding on reconstructed levee slope.
6. Channel invert to be restored to preconstruction condition (width and elevation) following completion of construction and removal of cofferdam.
7. Any damage to the levee patrol road AC surfacing shall be repaired by the construction contractor to the satisfaction of the RD1608 Levee Superintendent and/or Engineer.

8. Contractor to contact RD1608 Levee Superintendent (Joe Bryson, Ph. (209) 298-3307) when activities impacting the RD1608 levee are to occur (e.g., placement and removal of cofferdam, reconstruction of levee, etc.).
9. Provide three (3) sets of project as-built drawings to RD1608.

Fourteen Mile Slough

1. All in-channel and levee work to be completed NLT 1 November (beginning of flood season).
2. Unimpeded access along the levee crown road to be ensured throughout the flood season (1 November through 31 March).
3. Provide hydraulic calculations confirming permanent piles that will remain within the water way will not adversely impact conveyance capacity and water surface elevations for the 100 year flood event.
4. To reduce vibratory impacts on levee, only predrilled CIDH piles shall be used within or adjacent to toe of levee (temporary and permanent piles).
5. Temporary H piles placed within the waterway shall be removed. Temporary CIDH piles shall be partially removed to a line and grade acceptable to RD1608.
6. Restore all "trafficked" portions of the levee to preproject condition (line, grade, and slope).
7. For any portion of the levee that will need to be removed to facilitate placement of the widened bridge abutments, refer to the levee replacement requirements specified in item 5 for Five Mile Slough above.
8. Replace any levee riprap material (including bedding) that was removed from areas where construction is to occur; refer to levee riprap replacement requirements cited in item 4 for Five Mile Slough above.
9. Any damage to the levee patrol road AC surfacing shall be repaired by the construction contractor to the satisfaction of the RD1608 Levee Superintendent and/or Engineer.
10. Contractor to contact RD1608 Levee Superintendent (Joe Bryson, Ph. (209) 298-3307) when activities impacting the RD1608 levee are to occur (e.g., reconstruction of levee, etc.).
11. Provide three (3) sets of project as-built drawings to RD1608.



SAN JOAQUIN COUNTY
**FLOOD CONTROL & WATER
CONSERVATION DISTRICT**

P. O. BOX 1810

1810 EAST HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
TELEPHONE (209) 468-3000
FAX NO. (209) 468-2999

THOMAS R. FLINN
DIRECTOR OF PUBLIC WORKS
FLOOD CONTROL ENGINEER

September 22, 2009

Central Valley Flood Protection Board
3310 El Camino Avenue
Sacramento, California 95821

Attention: Mr. Jon Yego, Chief
Floodway Protection Section

**SUBJECT: CENTRAL VALLEY FLOOD PROTECTION BOARD PERMIT APPLICATION OF THE
SAN JOAQUIN COUNCIL OF GOVERNMENTS, AT THE INTERSTATE 5 CROSSING
OF THE CALAVERAS RIVER**

Gentlemen:

Reference is made to the Central Valley Flood Protection Board Permit Application to widen the Interstate 5 bridge over the Calaveras River. The California Department of Transportation (Caltrans), in cooperation with the City of Stockton and the San Joaquin Council of Governments, proposes to construct freeway and interchange improvements to Interstate 5. The bridge will be widened at the median by 48 feet, seven inches. Five center spans over the river will be constructed with precast, pre-stressed concrete I-girders on concrete pile caps, supported by 24-inch-diameter cast-in-drilled hole, reinforced concrete piles. Thirty five piles will be placed between the north and south levees, seven in each bent line. At bent 5, four six-foot-diameter piles will be installed to seismic retrofit existing bridge piles.

The project is located at the Interstate 5 crossing of the Calaveras River in San Joaquin County, in Section 32, Township 2 North, Range 6 East, Mount Diablo Base and Meridian.

The San Joaquin County Flood Control and Water Conservation District (District) has reviewed the Central Valley Flood Protection Board Permit Application of the California Department of Transportation (Caltrans), in cooperation with the City of Stockton and the San Joaquin Council of Governments, and endorses the project subject to the following conditions:

STANDARD CONDITIONS

1. The District shall not be responsible for the maintenance of the facilities specified in this application.
2. The District shall not be responsible for any damage to the facilities due to the District's operation and maintenance of the Calaveras River.
3. The Permittee shall be responsible for the modification or possible removal of the facilities, as requested by the District, if required for any future flood control plans at the applicant's sole cost and expense.
4. The Permittee shall be responsible for any damage to the Calaveras River that may occur as a result of this project.

Central Valley Flood Protection Board
PERMIT APPLICATION FOR
SAN JOAQUIN COUNCIL OF GOVERNMENTS

-2-

5. The project shall be constructed in accordance with the preliminary plans dated July 27, 2009 submitted with the application dated August 17, 2009. Any revisions to the project will require the submittal of the revised plans to the District for review and approval.
6. No work shall be allowed in the Calaveras River channel between November 1st and April 15th.
7. The Permittee shall keep the Calaveras River free and clear of all obstacles that prevent or retard flow of water.

SPECIAL CONDITIONS

8. Access roads shall be restored to the condition that existed prior to commencement of work.
9. Upon completion of the project, the Permittee shall submit as-built drawings to:

San Joaquin County Flood Control and Water Conservation District
1810 East Hazelton Avenue
Stockton, California 95205

Should there be any questions regarding these comments, please contact me at (209) 953-7617.

Sincerely,



MARK W. CONNELLY
Engineering Services Manager

MWC:JC:to
FM-91035-T1



SAN JOAQUIN COUNTY

FLOOD CONTROL & WATER CONSERVATION DISTRICT

P. O. BOX 1810

1810 EAST HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
TELEPHONE (209) 468-3000
FAX NO. (209) 468-2999

THOMAS R. FLINN
DIRECTOR OF PUBLIC WORKS
FLOOD CONTROL ENGINEER

December 7, 2009

Central Valley Flood Protection Board
3310 El Camino Avenue
Sacramento, California 95821

Attention: Mr. Jon Yego, Chief
Floodway Protection Section

SUBJECT: CENTRAL VALLEY FLOOD PROTECTION BOARD PERMIT APPLICATION
OF CALTRANS DISTRICT 10, AT THE INTERSTATE 5 CROSSING OF
FOURTEEN MILE SLOUGH

Gentlemen:

Reference is made to the Central Valley Flood Protection Board Permit Application of the California Department of Transportation (Caltrans), District 10, to widen the Interstate 5 bridges over Fourteen Mile Slough. The widening of the two seven-span bridges will consist of closing the 46-foot eight-inch gap at the median of the existing northbound and southbound bridges, and widening of both bridges to the outside approximately 12 feet, six inches. Twenty-four-inch-diameter, cast-in-drilled-hole reinforced concrete piles, will support precast, pre-stressed voided slabs. A total of 66 piles will be installed, 11 at each bent. Temporary fill over embankment slopes and temporary construction trestles supported by H-piles will be used to perform the in-channel construction.

The project is located at the Interstate 5 crossing of Fourteen Mile Slough in San Joaquin County, in Sections 20 and 29, Township 2 North, Range 6 East, Mount Diablo Base and Meridian.

The San Joaquin County Flood Control and Water Conservation District (District) has reviewed the Central Valley Flood Protection Board Permit Application of Caltrans and endorses the project subject to the following conditions:

STANDARD CONDITIONS

1. The District shall not be responsible for the maintenance of the facilities specified in this application.
2. The District shall not be responsible for any damage to the facilities due to the District's operation and maintenance of Fourteen Mile Slough.
3. The Permittee shall be responsible for the modification or possible removal of the facilities, as requested by the District, if required for any future flood control plans at the applicant's sole cost and expense.
4. The Permittee shall be responsible for any damage to Fourteen Mile Slough that may occur as a result of this project.

5. The project shall be constructed in accordance with the preliminary plans dated July 27, 2009 submitted with the application dated August 17, 2009. Any revisions to the project will require the submittal of the revised plans to the District for review and approval.
6. No work shall be allowed in the Fourteen Mile Slough channel between November 1st and April 15th.
7. The Permittee shall keep Fourteen Mile Slough free and clear of all obstacles that prevent or retard flow of water.

SPECIAL CONDITIONS

8. The levee sections used in the construction of the work shall be restored to the condition that existed prior to commencement of work.
9. Upon completion of the project, the Permittee shall submit as-built drawings in PDF format on a disk to:

San Joaquin County Flood Control and Water Conservation District
1810 East Hazelton Avenue
Stockton, California 95205

If there are any questions regarding these comments, please contact me at (209) 953-7617.

Sincerely,


MARK W. CONNELLY
Engineering Services Manager

MWC:JC:to
FM-9L007-T1

U.S. Department of
Homeland Security

United States
Coast Guard



Commander
District Eleven

U.S. Coast Guard Island, Bldg 50-2
Alameda, CA 94501-5100
Staff Symbol: (dpw)
Phone: (510) 437-3514
Fax: (510) 437-5836

16591
Calaveras River (1.8)
Fourteen Mile Slough (6.0)
July 21, 2010

California Department of Transportation
Attn: C. Scott Guidi
P. O. Box 2048
Stockton, CA 95201

Dear Mr. Guidi:

We have completed our review of the information provided by your letter dated June 14, 2010 concerning the proposed widening of the I-5 bridge crossings at Calaveras River, mile 1.8 and Fourteen Mile Slough, mile 6.0. A copy of that letter is enclosed for ease of reference. We understand the existing bridge navigational clearances will not be permanently reduced and the proposed temporary construction "trestles" will not completely span the waterway.

The Coast Guard concurs with the Caltrans determination, under the delegated authority to act on behalf of the Federal Highway Administration, that these two proposed bridge widening projects do not require bridge permitting action by the Coast Guard, pursuant to the provisions of 23 USC 144(h).

This concurrence is confined to the proposed widening of the I-5 bridge crossings at the Calaveras River and Fourteen Mile Slough, to occur between June 1, 2011 and November 1, 2012.

The bridge owner must provide the contractors proposed work plan to my office at least 30 days prior to the planned start date for any work in or over the water, so we may review, coordinate with waterway users, and provide any corrections or approvals back to the bridge owner. Once approved, scheduled updates will be required during the project to ensure we are providing accurate information to the waterway users, concerning navigational impacts at the bridges.

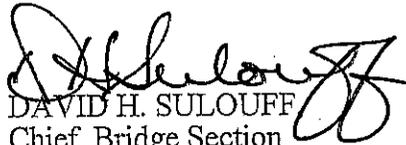
This concurrence does not relieve the bridge owner from the responsibility to comply with all applicable federal, state and local laws and regulations pertinent to this project. You should contact the cognizant Corps of Engineers regulatory office for permitting advice on proposed

16591
July 21, 2010

navigational obstructions (other than bridges) and/or dredge or fill associated with this project.

You may contact Mr. Carl Hausner, Project Manager at (510) 437-3515 to discuss this project.

Sincerely,



DAVID H. SULOUFF
Chief, Bridge Section
Eleventh Coast Guard District
By direction of the District Commander

Enclosure

Copy: CG Sector San Francisco
Corps of Engineers, Sacramento District
CG-551

DEPARTMENT OF TRANSPORTATION

P.O. BOX 2048, STOCKTON, CA 95201
(1976 E. DR. MARTIN LUTHER KING JR. BLVD. 95205)
PHONE (209) 948-7829
FAX (209) 948-7666
TTY 711



*Flex your power!
Be energy efficient!*

June 14, 2010

SJ-5-PM 25.4/37.2
I-5 North Stockton Widening Project
EA: 10-0G470

Mr. David H. Sulouff
Chief, Bridge Section
United States Coast Guard.
Eleventh Coast Guard District
Building 50-6, Coast Guard Island
Alameda, California 94501-5100

Attn: Carl Hausner

Dear Mr. Sulouff:

The California Department of Transportation (Caltrans) in conjunction with the San Joaquin Council of Governments (SJCOG), collectively referred to as the project team, has drafted this letter in response to the United States Coast Guard's (USCG) letter, dated May 11, 2010, and subsequent emails outlining the steps required for USCG's approval of the Interstate 5 (I-5) North Stockton Widening Phase 1 Project (Project) as it relates to navigable waterways under USCG jurisdiction. The two waterways requiring further discussion with the USCG regarding navigability are Calaveras River and Fourteen Mile Slough.

The project team will defer any request for permitting of the bridge widenings at Mosher Slough, mile 0.4 and Bear Creek, mile 0.8, until such time that the final Plans, Specifications, and Estimates (PS&E) package for this section of the project (hereafter referred to as Phase 2) is complete and funding for construction has been encumbered.

BACKGROUND

USCG Comments

The project team understands that the USCG has established that the U.S. Department of Transportation, Federal Highway Administration (FHWA) has the ability to determine that a USCG bridge permit (under General Bridge Act 1946/River & Harbor Act 1899) is not required, per the following:

23 USC 144(h). Notwithstanding any other provision of law, the General Bridge Act of 1946 (33 U.S.C. 525-533) shall apply to bridges authorized to be replaced, in whole or in part, by this section, except that subsection (b) of section 502 of such Act of 1946 and section 9 of the Act of March 3, 1899 (30 Stat. 1151) shall not apply to any bridge constructed, reconstructed, rehabilitated, or replaced with assistance under this title, if such bridge is over waters (1) which are not used and are not susceptible to use in their natural condition or by reasonable improvement as a means to transport interstate or foreign commerce, and (2) which are (a) not tidal, or (b) if tidal, used only by recreational boating, fishing, and other small vessels less than 21 feet in length.

If the FHWA determines the I-5 structures crossing the Calaveras River and Fourteen Mile Slough meet the requirements of the 23 USC 144(h) and the Coast Guard concurs, then a Coast Guard bridge permit will not be required.

NEPA Delegation

Caltrans, under the provisions of Section 6005 of the Safe, Accountable, Flexible, Efficient Transportation Act, has been delegated approval authority for this project from the FHWA for responsibilities under the National Environmental Policy Act (NEPA). The USCG is a cooperating agency to satisfy the requirements of NEPA.

Environmental Documentation

A Combined Environmental Impact Report (EIR) for California Environmental Quality Act (CEQA) clearance and a Federal Environmental Assessment/Finding of No Significant Impact (EA/FONSI) for NEPA clearance was prepared and approved on March 22, 2010. The Notice of Determination was filed on April 28, 2010. The Draft EIR/EA was circulated for a forty-five day public review period and an additional thirty day agency review period. No comments were received regarding navigation issues from the public. Language in the EIR/EA discussing navigational issues on the Fourteen Mile Slough and the Calaveras River are as follows:

- ***Fourteen Mile Slough** has a soffit thirteen feet from the mean high water elevation and fifteen feet from the mean low water elevation. Water depth in Fourteen Mile Slough at the existing I-5 bridge averages about zero feet at low tide (mean lower low water) and about two feet at mean high water. There are docks to the west (downstream) of I-5 along Fourteen Mile Slough and access to marinas downstream. The average width of the channel in the project area is 134 feet. (page 88, FEIR)*

- ***The Calaveras River** has a soffit located sixteen feet from the mean high water elevation and eighteen feet from the mean low water elevation. Water depth in the Calaveras River at the existing I-5 bridge averages about eight feet at low tide (mean lower low water) and about twelve feet at mean high water. There are docks along the Calaveras River in the project area and access to boat launches and marinas in nearby waterways. The average width of the channel within the project area is 170 feet. (Page 89, FEIR)*

Construction of the proposed project would require temporary trestles at Fourteen Mile Slough and the Calaveras River bridges. These temporary trestles would lower the effective soffit elevation at Fourteen Mile Slough (from thirteen feet to seven feet above mean high water elevation), and the Calaveras River Bridge (from sixteen feet to eleven feet above mean high water elevation). Temporary trestles would remain in each of these waterways for four months. (page 89, FEIR)

FIELD REVIEW

In May 2010, additional field investigations relative to the use of the subject waterways were conducted by KSN, Inc., a consultant retained by an additional project team member, the City of Stockton. Their findings are as follows:

1. There are three docks on the south bank of the Calaveras River upstream of I-5. Two of the docks were approximately ten feet in length and one was approximately twenty feet in length. All three docks were in poor to very poor condition, and it didn't appear that any of them were being actively used. There were no boats moored at any of the docks.
2. Fourteen Mile Slough extends approximately 1,750 feet east of I-5. There is no public access to Fourteen Mile Slough upstream of I-5 due to the presence of privately owned properties on both the north and south banks. A review of aerial photography identified seven to eight small docks (ten feet or less) upstream of I-5 that were connected to privately owned properties. Fourteen Mile Slough, upstream of I-5, is very shallow and at low tide it is nearly dry and is not navigable. There were no boats moored at any of the docks.

BRIDGE DESCRIPTIONS

Following the approval of the environmental document, additional detailed engineering has been conducted to determine the ability of the contractor to widen the existing bridges without fully spanning the navigable waterway. The following describes each proposed bridge widening:

➤ **Calaveras River Bridge (Widen):**

The proposed bridge widening will be an eleven-span, three-frame median widening that is forty-eight feet seven inches wide by 520 feet long. The Calaveras River Bridge (Widen) spans over River Drive and Brookside Road, as well as the Calaveras River. The permanent piles and pile extensions between Bents three and ten are within the limits of the levees and river and will be constructed with the use of a temporary trestle, supported on steel pipe piles. The temporary trestle will be constructed from either bank, leave the center span of the bridge open for navigation as it is today. Drilling rigs will be used to spin the pipe piles supporting the temporary trestle into place within the limits of the levees and driven or spun into place outside the limits of the levees. The permanent piles and pile extensions within the limits of the levees and river consist of thirty inch and thirty-six inch diameter cast-in-drilled-hole (CIDH) concrete piles with a twenty-four inch diameter cast-in-place reinforced concrete pile extensions. The permanent pile extensions will be in-line with the existing pile extensions such that the widened structure mimics the existing structure. The permanent piles within the limits of the levees and river will be constructed with temporary casings that will be spun into the ground. A seismic retrofit of each existing structure will be required at Bent 5a to prevent a collapse of the existing structure during a seismic event. The seismic retrofit at Bent 5a will utilize 5-foot diameter CIDH concrete piles which will be constructed using a temporary casing that will be oscillated into place using an oscillator. Abutments one and twelve, and Bents two and eleven, which are located outside the limits of the levees and river, will utilize precast prestressed concrete driven piles. Construction of the widening is expected to take approximately ten months. All construction within the river will be completed within a four month window from July 1st to November 1st of 2011 and 2012. No obstructions from the temporary construction trestle will remain in the Calaveras River after November 1st per the direction of the United States Fish and Wildlife Service (USFWS) and the National Oceanic and Atmospheric Administration's (NOAA) National Marine Fisheries Service.

➤ **Fourteen Mile Slough Bridge (Widen):**

The proposed bridge inside widening will be a seven span median widening that is forty-six feet and eight inches wide 214 feet long, placed between existing left and right reinforced concrete slab structures over Fourteen Mile Slough. The proposed bridge outside widening will be two seven span deck widenings that are twelve feet 5 and three quarters inches wide by 214 feet long, placed on each side of the existing left and right reinforced concrete slab structures over Fourteen Mile Slough. The permanent piles and pile extensions between Bent two and Bent seven are within the limits of the levees and river and will be constructed with the use of a temporary trestle, supported on steel pipe piles. The temporary trestle will be constructed from either bank, leave the center span of the bridge open for navigation as it is today. Drilling rigs will be used to spin the pipe piles supporting the temporary trestle into place within the limits of the levees and driven or spun into place outside the limits of the levees. The permanent piles and pile extensions within the limits of the levees and river consist of twenty-four inch diameter

CIDH concrete piles and cast-in-place reinforced concrete pile extensions. The permanent pile extensions will be in-line with the existing pile extensions such that the widened structure will mimic the existing structure. The permanent piles within the limits of the levees and river will be constructed with temporary casings that will be spun into the ground. Construction of the widening is expected to take approximately seven months. All construction within the river will be completed within a four month window from July 1st to November 1st of 2011 and 2012. No obstructions will remain in Fourteen Mile Slough after November 1st per the direction of the United States Fish and Wildlife Service (USFWS) and the National Oceanic and Atmospheric Administration's (NOAA) National Marine Fisheries Service.

CONCLUSIONS AND RECOMMENDATION

Based on the results of the combined EIR/EA/FONSI findings and supplemental field review, Caltrans, acting on behalf of the FHWA, concludes the following:

1. A USCG bridge permit, per the General Bridge Act 1946/ River & Harbor Act 1899), is not required for either the Calaveras River or Fourteen Mile Slough based on the conclusion that the waterways at the bridge sites are not navigated by vessels larger than 21 feet;
2. The project team concludes that the approved EIR/EA/FONSI adequately describes the potential impacts to navigation at the subject waterways; and
3. The project team concludes that adequate public notification and opportunity for comments was provided as part of the environmental clearance process, per CEQA and NEPA, and that no concerns have been expressed from the public regarding the navigation of the waterways during and post construction.

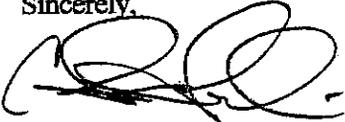
The project team is requesting your concurrence with the above described findings for construction of bridge widenings on I-5 over the Calaveras River and Fourteen Mile Slough as described above. Lastly, all in-water work will be conducted from June 1st to November 1st, in years 2011 and 2012.

The project team appreciates your review and concurrence of these findings at your earliest convenience. If possible, the project team would like to get a response by July 15, 2010.

Mr. Sulouff
June 14, 2010
Page 6

If you have any further questions or concerns, please do not hesitate to contact me, C. Scott Guidi, Caltrans Project Manager, at (209) 948-7829 or by email at scott_guidi@dot.ca.gov. Thank you for your assistance in the development of this State Highway System project.

Sincerely,



C. SCOTT GUIDI
Project Manager, District 10
Programming & Project Management

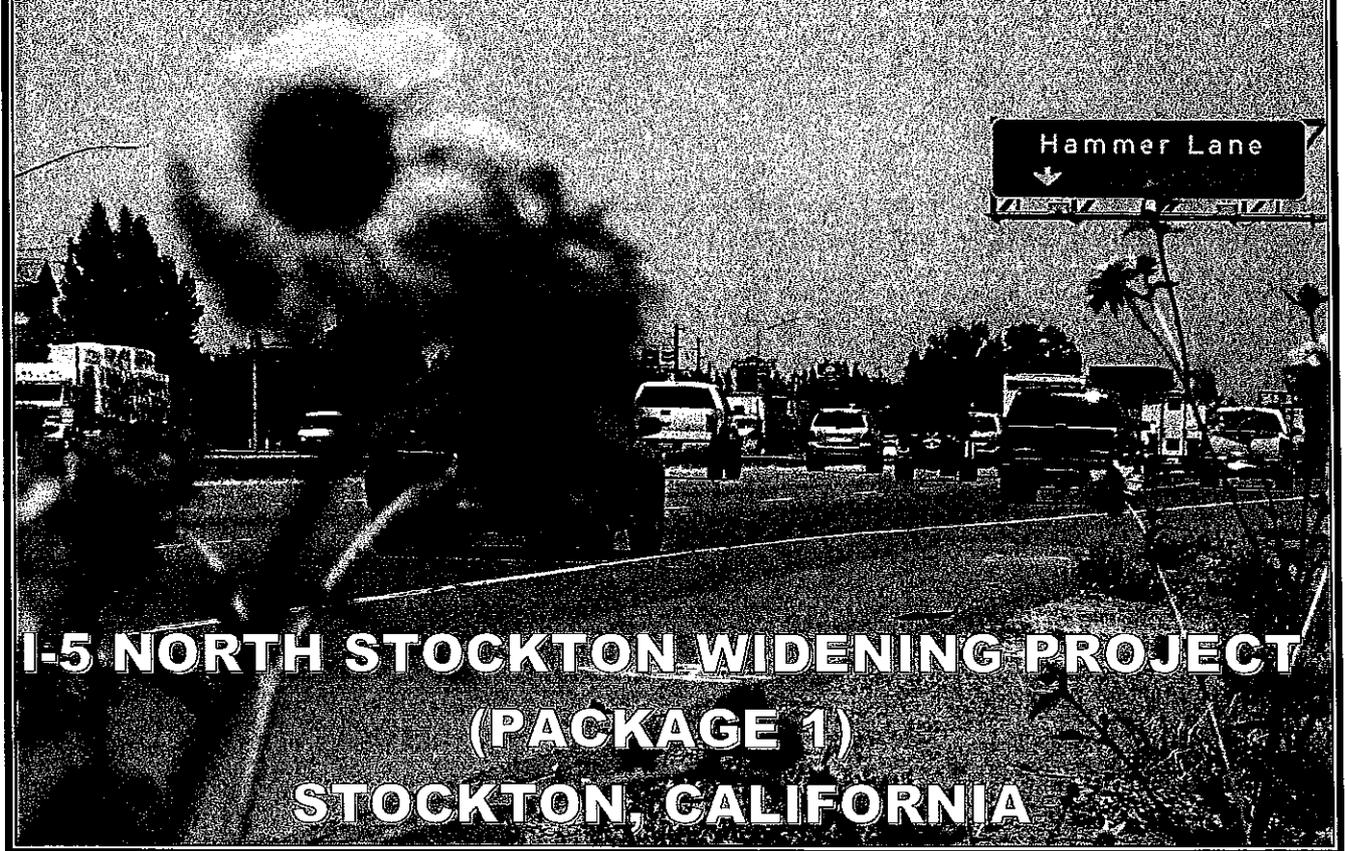
Attachments:

- (1) Calaveras River Bridge Coast Guard Permit Exhibit
- (2) Fourteen Mile Slough Bridge Coast Guard Permit Exhibit

Mr. Sulouff
June 14, 2010
Page 7

- c: Ross Chittenden, District 10 Director
- Dinah Bortner, Deputy District Director, Programming & Project Management
- Dennis T. Agar, Deputy District Director, Maintenance and Operations
- Andrew T. Chesley, Executive Director, SJCOG
- Dana Cowell, Deputy Director Planning, Programming & Project Delivery, SJCOG
- Kevin Sheridan, Project Manager, SJCOG
- Alex Menor, Project Manager, City of Stockton
- Keith Meyer, Vice President, Rajappan and Meyer
- Paul Elliot, Design Manager, Caltrans Design Branch I
- Eric Chin, Project Engineer, Caltrans Design Branch I

**ASBESTOS AND
LEAD-CONTAINING PAINT SURVEY**



**I-5 NORTH STOCKTON WIDENING PROJECT
(PACKAGE 1)
STOCKTON, CALIFORNIA**

PREPARED FOR:

RAJAPPAN & MEYER CONSULTING ENGINEERS
1038 LEIGH AVENUE, SUITE 100
SAN JOSE, CALIFORNIA 95126

PREPARED BY:

GEOCON CONSULTANTS, INC.
6671 BRISA STREET
LIVERMORE, CALIFORNIA



GEOCON

SEPTEMBER 2009

GEOCON PROJECT No. E8477-06-01



CONSULTANTS, INC.

G E O T E C H N I C A L ■ E N V I R O N M E N T A L ■ M A T E R I A L S



Project No. E8477-06-01
September 30, 2009

Keith Meyer
Rajappan & Meyer Consulting Engineers
1038 Leigh Avenue, Suite 100
San Jose, California 95126

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY
I-5 NORTH STOCKTON WIDENING PROJECT (PACKAGE 1)
STOCKTON, SAN JOAQUIN COUNTY, CALIFORNIA

Dear Mr. Meyer:

Geocon has performed an asbestos and lead-containing paint survey at the subject site. The scope of services provided by Geocon included surveying various site structures for suspect asbestos-containing materials and lead-containing paint, collecting bulk samples, and submitting the samples to laboratories for analyses.

The accompanying report summarizes the services performed and laboratory analysis.

The contents of this report reflect the views of Geocon Consultants, Inc., who is responsible for the facts and accuracy of the data presented herein. This report does not constitute a standard, specification, or regulation.

Please call us if you have any questions.

Sincerely,

GEOCON CONSULTANTS, INC.

David A. Watts, CAC
Senior Project Scientist

DAW

(5) Addressee

TABLE OF CONTENTS

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

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FIGURES

- 1. Vicinity Map
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- 1. Summary of Analytical Laboratory Test Results – Asbestos
- 2. Summary of Analytical Laboratory Test Results – Paint

APPENDICES

- A. Caltrans Bridge List (Log of Bridges)
- B. Analytical Laboratory Report and Chain-of-Custody Documentation

ASBESTOS AND DETERIORATED LEAD PAINT SURVEY REPORT

1.0 INTRODUCTION

1.1 Site Description

The project consists of 45 bridge spans between Post Mile (PM) 25.35 and PM 32.66 on Interstate 5 (I-5) in Stockton, San Joaquin County, California. The bridge spans included in our survey are listed in Appendix A. In addition to the bridge spans, the box culvert at Five Mile Slough was included in our survey. The project location is depicted on the attached Vicinity Map, Figure 1, and Site Plans, Figures 2A through 2C.

1.2 General Objectives

Our objectives were to assess the potential presence and quantity of asbestos and lead-containing paint (LCP) at the project location prior to planned bridge widening activities. The information obtained from this investigation will be used by Rajappan & Meyer Consulting Engineers for waste profiling, determining California Occupational Safety and Health Administration (Cal/OSHA) applicability, and coordinating asbestos and LCP disturbance activities.

It was not our intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with HUD guidelines.

2.0 BACKGROUND

2.1 Asbestos

The *Code of Federal Regulations (CFR)*, 40 CFR 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Federal Occupational Safety and Health Administration (FED OSHA) classify asbestos-containing material (ACM) as any material or product that contains *greater than* 1% asbestos. Nonfriable ACM is classified by NESHAP as either Category I or Category II material defined as follows:

- **Category I** – asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.
- **Category II** – all remaining types of nonfriable asbestos-containing material not included in Category I that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated asbestos-containing material (RACM), a hazardous waste when friable, is classified as any material that contains *greater than* 1% asbestos by dry weight *and* is:

- Friable; or
- Category I material that has become friable; or

- Category I material that has been subjected to sanding grinding, cutting or abrading; or
- Category II nonfriable material that has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition or renovation activities.

Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the Cal/OSHA asbestos standard contained in Title 8, CCR Section 1529. Typically, removal or disturbance of more than 100 square feet of material containing more than 0.1% asbestos must be performed by a registered asbestos abatement contractor, but associated waste labeling is not required if the material contains 1% or less asbestos. When the asbestos content of a material exceeds 1%, virtually all requirements of the standard become effective.

Materials containing more than 1% asbestos are also subject to NESHAP regulations (40 CFR Part 61, Subpart M). RACM (friable ACM and nonfriable ACM that will become friable during demolition operations) must be removed from structures prior to demolition. Certain nonfriable ACM and materials containing 1% or less asbestos may remain in structures during demolition; however, there are waste handling/disposal issues and Cal/OSHA work requirements that must be addressed. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

With respect to potential worker exposure, notification, and registration requirements, Cal/OSHA defines asbestos-containing construction material (ACCM) as construction material that contains more than 0.1% asbestos (Title 8, CCR 341.6).

2.2 Lead Paint

Construction activities (including demolition) that disturb materials or paints containing *any* amount of lead are subject to certain requirements of the Cal/OSHA lead standard contained in Title 8, CCR, Section 1532.1. Deteriorated paint is defined by Title 17, CCR, Division 1, Chapter 8, §35022 as a surface coating that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separated from a component. Demolition of a deteriorated LCP component would require waste characterization and appropriate disposal. Intact LCP on a component is currently accepted by most landfill facilities; however, contractors are responsible for segregating and characterizing waste streams prior to disposal.

For a solid waste containing lead, the waste is classified as California hazardous when: 1) the total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTLC) of 1,000 milligrams per kilogram (mg/kg); or 2) the soluble lead content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter (mg/l) based on the standard Waste Extraction Test (WET). A waste has the potential for exceeding the lead STLC when the waste's total lead content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when total lead is detected at a concentration greater than or

equal to 50 mg/kg, and assuming that 100 percent of the total lead is soluble, soluble lead analysis is required. Lead-containing waste is classified as "Resource, Conservation, and Recovery Act" (RCRA) hazardous, or Federal hazardous, when the soluble lead content equals or exceeds the Federal regulatory level of 5 mg/l based on the Toxicity Characteristic Leaching Procedure (TCLP).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability; however, for the purposes of this investigation, toxicity (i.e., lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or other criteria. Waste that is classified as either California hazardous or RCRA hazardous requires management as a hazardous waste.

Potential hazards exist to workers who remove or cut through LCP coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with lead-containing paint. Torching of these materials may produce lead oxide fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with LCP. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in the Title 8, CCR, Section 1532.1.

2.3 Architectural Drawings and Previous Survey Activities

Rajappan & Meyer Consulting Engineers provided bridge architectural drawings for our review. We observed no evidence of asbestos-containing products or lead-containing paints specified on the drawings reviewed.

3.0 SCOPE OF SERVICES

Mr. David Watts, a California-Certified Asbestos Consultant (CAC), certification No. 98-2404 (expiration September 16, 2010), and Certified Lead Paint Inspector/Assessor and Project Monitor with the California Department of Public Health (DPH), certification numbers I-1734 and M-1734 (expiration December 4, 2010), performed the asbestos and LCP survey at the project location from July 20 through 24, 2009.

3.1 Asbestos

Suspect ACM were grouped into homogeneous areas with representative samples randomly collected from each. In addition, each potential ACM was evaluated for friability. A total of 64 bulk asbestos samples representing 43 suspect materials were collected.

Our procedures for inspection and sampling are discussed below:

- Collected bulk asbestos samples after first wetting friable material with a light mist of water. The samples were then cut from the substrate and transferred to a labeled container. Note that when multiple samples were collected, the sampling locations were distributed throughout the homogeneous area (spaces where the material was observed).
- Relinquished bulk asbestos samples under chain-of-custody protocol to EMSL Analytical, Inc., a California-licensed laboratory, for asbestos analysis in accordance with United States Environmental Protection Agency (EPA) Test Method 600/R-93/116 using polarized light microscopy (PLM). EMSL Analytical, Inc. is a laboratory accredited by the National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program (NIST-NVLAP) for bulk asbestos fiber analysis. The laboratory analyses were requested on a 10-workday turn-around-time.

Sample identification numbers, material descriptions, approximate quantities, friability assessments, and photo references are summarized on Table 1. Approximate sample locations are presented on Figures 2A through 2C. Materials represented by the samples collected are shown in the attached photographs.

We observed no suspect materials at the Five Mile Slough box culvert. Consequently, we collected no asbestos samples at that location.

3.2 Lead Paint

Two bulk paint samples were collected from suspect LCP observed on the Stockton Channel Viaduct spans (Bridge 29-0176L/R). Our procedures for inspection and sampling are discussed below:

- Collected bulk samples of suspect LCP using techniques presented in HUD guidelines. In addition, the painted areas were evaluated for evidence of deterioration such as flaking or cracking.
- Relinquished bulk LCP samples under chain-of-custody protocol to Advanced Technology Laboratories, a California-licensed laboratory, for lead analysis in accordance with EPA Test Method 6010B. Advanced Technology Laboratories is accredited by the DPH for lead analysis. The laboratory analysis was requested on a 7-workday turn-around-time.

Paint sample identification numbers, paint description, and photo references are summarized on Table 2. The approximate sample locations are presented on Figure 2. Material represented by the samples collected is shown in the attached photographs.

We observed no suspect LCP on structural members of the other bridges during our survey. Consequently, we collected no other LCP samples.

4.0 INVESTIGATIVE RESULTS

4.1 Asbestos Analytical Results

Chrysotile asbestos at concentrations ranging from 60% to 80% was detected in samples representing nonfriable sheet packing used as shims on the barrier rail systems of all the bridge spans included in our survey (see Appendix A). We were not able to quantify the sheet packing due to safety concerns (i.e., traffic).

No asbestos was detected in samples of the remaining suspect materials collected during our survey. A summary of the analytical laboratory test results for asbestos is presented on Table 1. Reproductions of the laboratory report and chain-of-custody documentation are presented in Appendix B.

4.2 Paint Analytical Results

Samples representing intact orange paint observed on the Stockton Channel Viaduct (Bridge 29-0176L/R) structural steel exhibited total lead concentrations of 36,000 mg/kg and 140,000 mg/kg. The soluble (TCLP) lead concentration was 66 mg/l.

A summary of the analytical laboratory test results for paint is presented on Table 2. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix B.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Asbestos

NESHAP regulations do not require that asbestos-containing sheet piling (a Category I nonfriable/nonhazardous material) identified during our survey be removed prior to demolition or be treated as a hazardous waste. However, the disturbance of the material is still covered by the Cal/OSHA asbestos standard (Title 8, CCR Section 1529). We recommend that a licensed contractor registered with Cal/OSHA for asbestos-related work perform any activities that would *disturb* the material. Contractors are responsible for informing the landfill of the contractor's intent to dispose of asbestos waste. Some landfills may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

Geocon also recommends the notification of contractors (that will be conducting renovation or related activities) of the presence of asbestos in their work areas (i.e., provide contractor[s] with a copy of this report and a list of asbestos removed during subsequent activities). Contractors not trained for asbestos work should be instructed not to disturb asbestos during their activities.

In accordance with the San Joaquin Valley Unified Air Pollution Control District, Rule 4002, written notification is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not). In accordance with Title 8, CCR 341.9, written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain asbestos-related work.

5.2 Lead Paint

LCP identified on the Stockton Channel Viaduct would be considered a California and Federal (RCRA) hazardous waste if stripped, blasted, or otherwise separated from the substrate.

The Cal/OSHA lead standard will apply to any maintenance, renovation, or demolition activity that disturbs LCP identified at the project location. In accordance with Title 8, CCR, Section 1532.1(p), written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain lead-related work.

6.0 REPORT LIMITATIONS

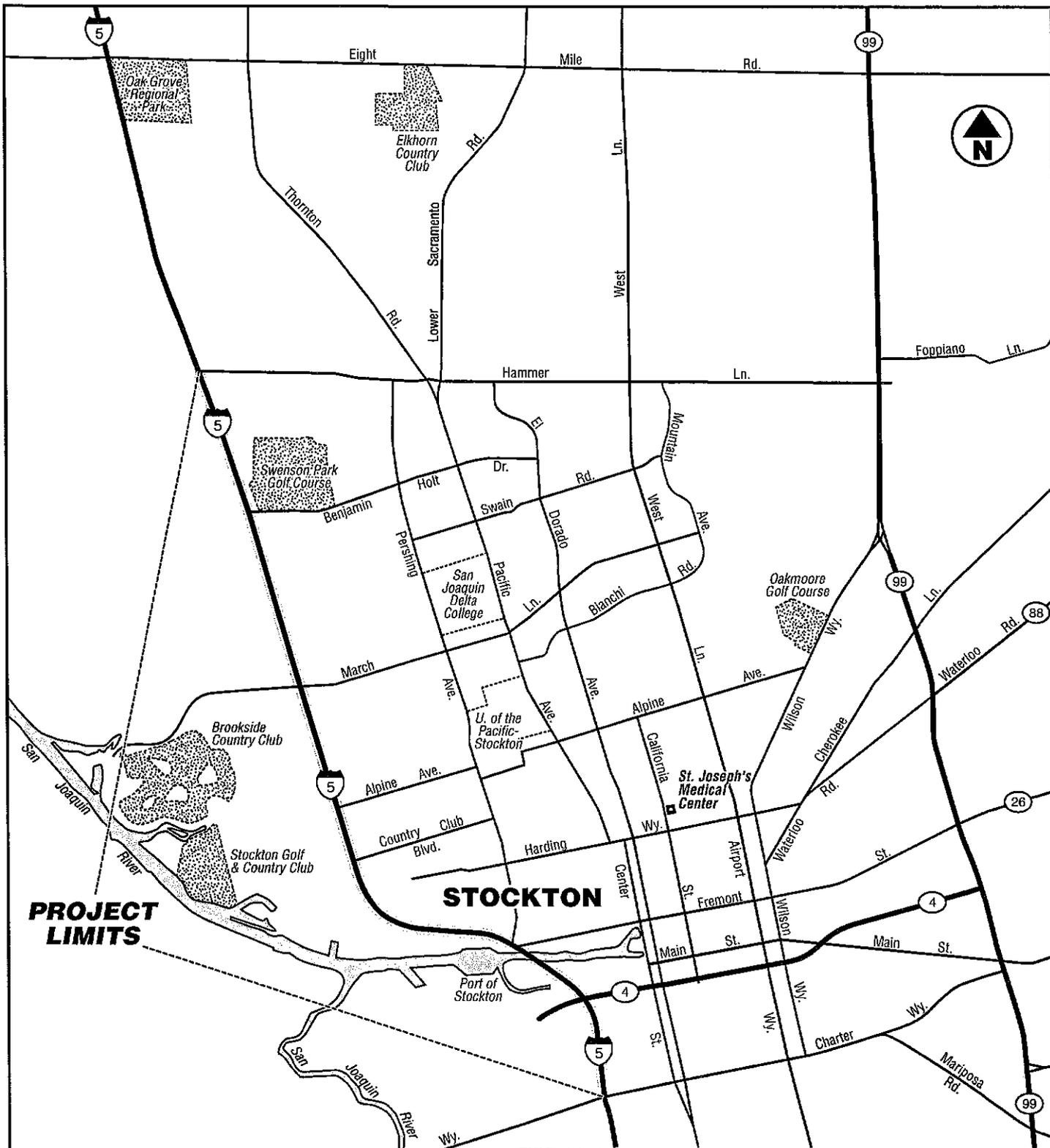
This asbestos and LCP survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos and LCP in structures. The survey addressed only those structures identified in Section 1.1. Due to the nature of structure surveys, asbestos and LCP use, and laboratory analytical limitations, some ACM or LCP at the project location may not have been identified. Spaces such as cavities, voids, crawlspaces, and pipe chases may have been concealed to our investigator. Previous renovation work may have concealed or covered spaces or materials or may have partially demolished materials and left debris in inaccessible areas. Additionally, renovation activities may have partially replaced ACM with indistinguishable non-ACM. Asbestos and/or LCP may exist in areas of the structures that were not accessible or sampled in conjunction with our scope of services.

During renovation or demolition operations, suspect materials may be uncovered which are different from those accessible for sampling during this assessment. Personnel in charge of renovation/demolition should be alerted to note materials uncovered during such activities that differ substantially from those included in this or previous assessment reports. If suspect ACM and/or LCP are found, additional sampling and analysis should be performed to determine if the materials contain asbestos or lead.

This report has been prepared exclusively for Rajappan & Meyer Consulting Engineers. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

The contents of this report reflect the views of the author who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California. This report does not constitute a standard, specification, or regulation.



PROJECT LIMITS



GEOCON
CONSULTANTS, INC.

3180 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 - FAX 916 852-9132

I-5 North Stockton Widening Project (Package 1)

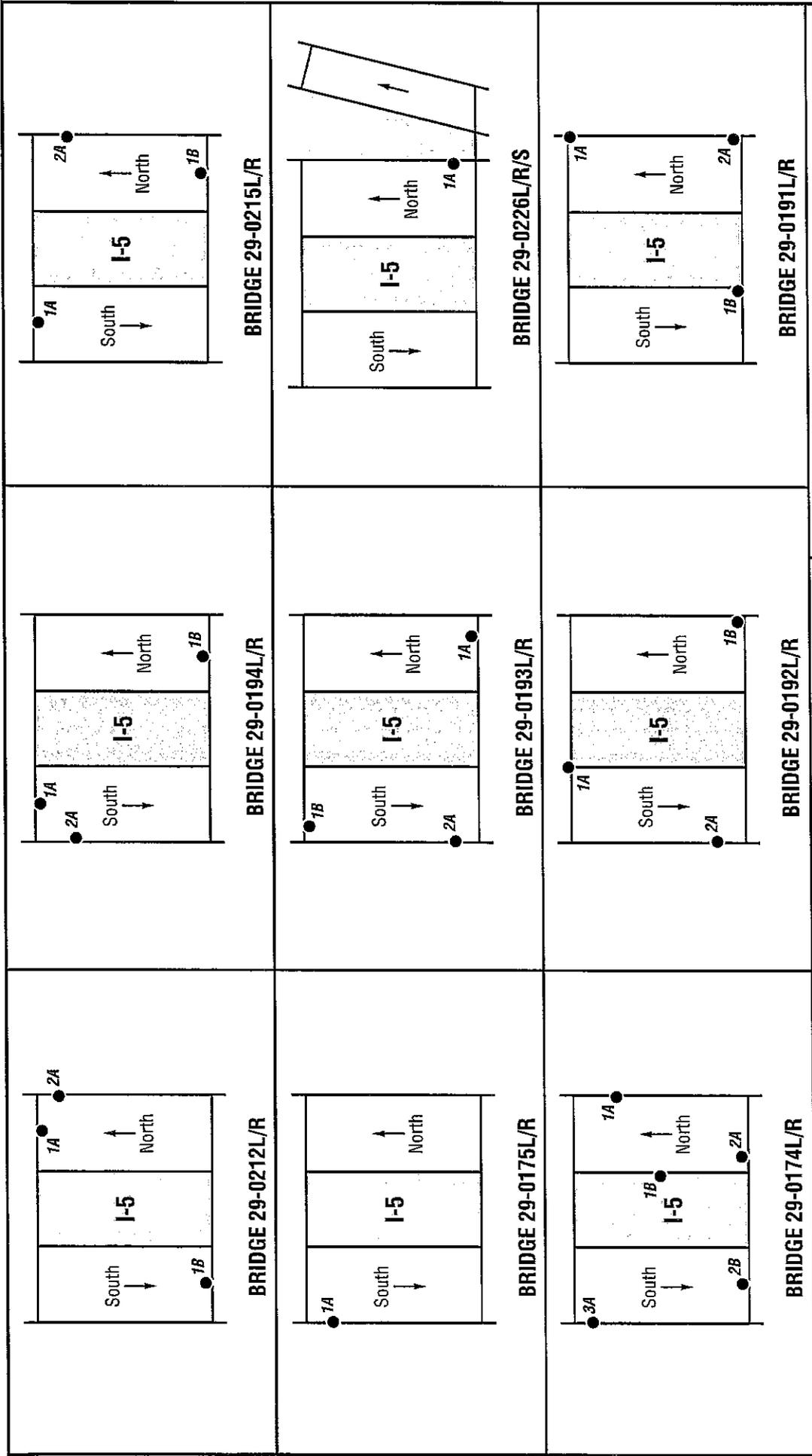
Stockton,
California

VICINITY MAP

E8477-06-01

September 2009

Figure 1



LEGEND:

- Approximate Asbestos Sample Location

NOT TO SCALE

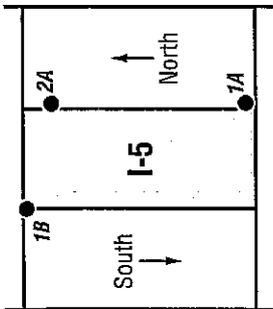
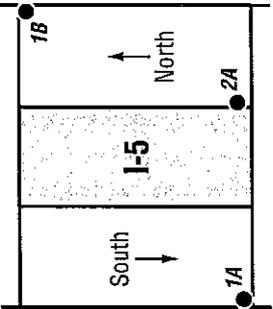
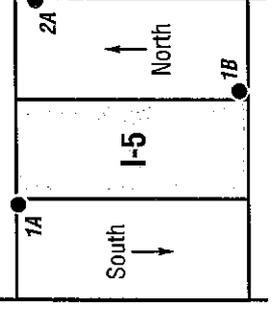
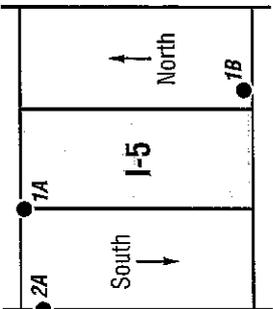
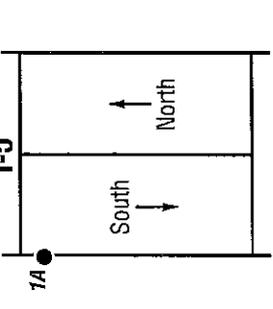
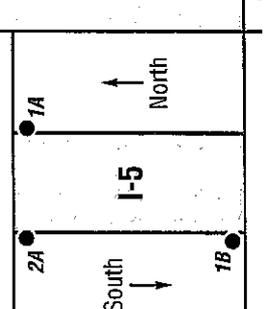
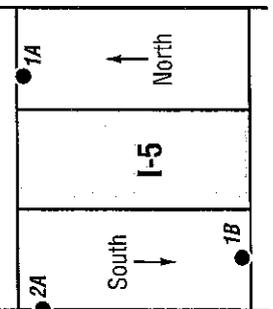
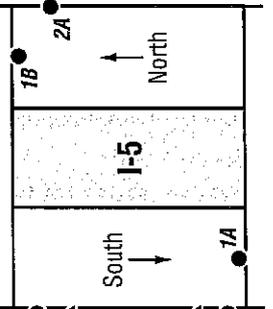
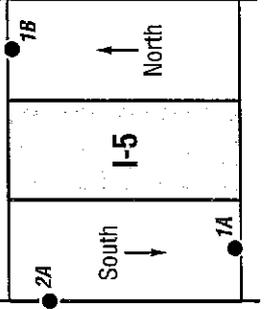
GEOCON
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I-5 North Stockton Widening Project (Package 1)

Stockton,
California

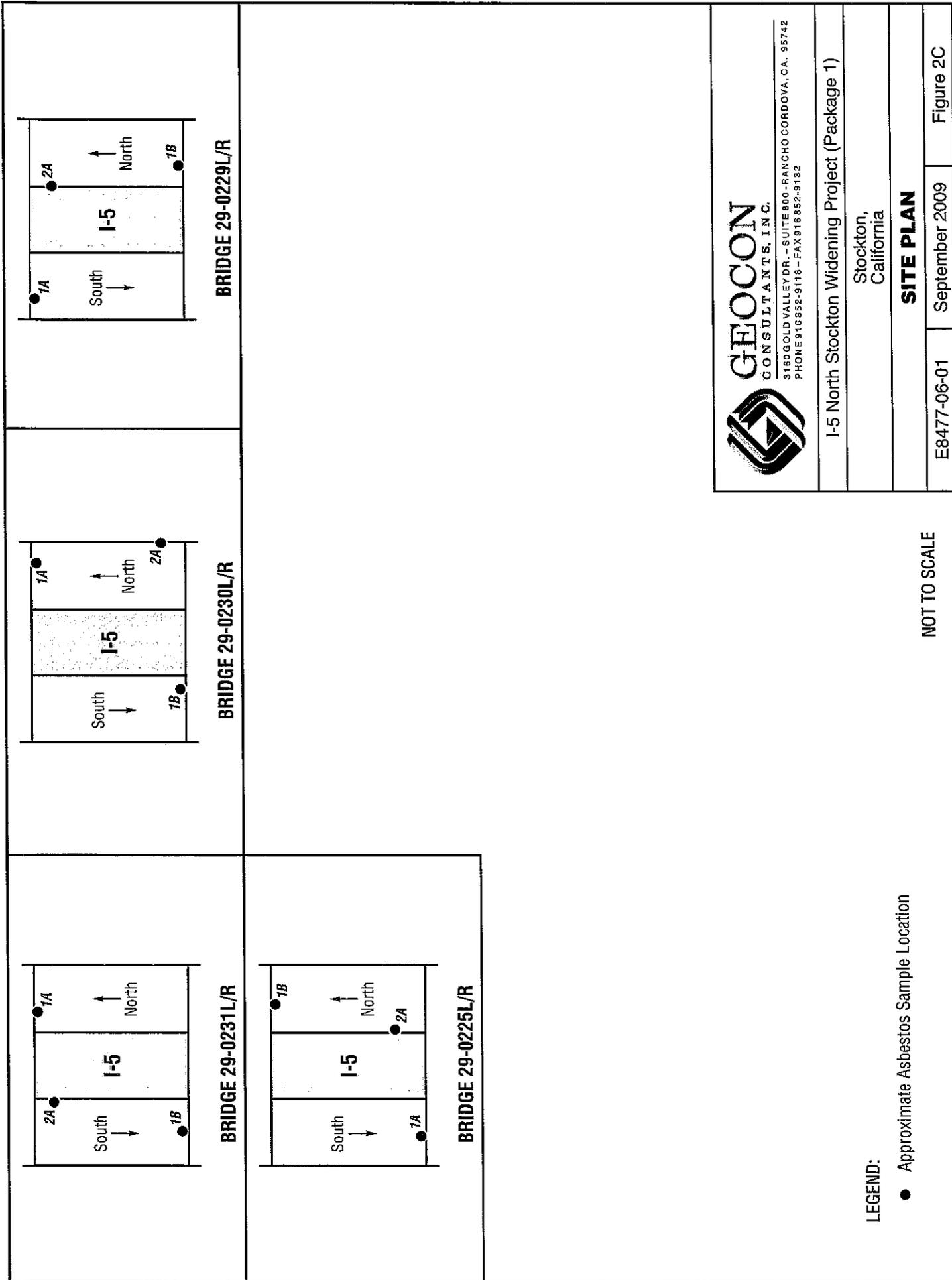
SITE PLAN

E8477-06-01 September 2009 Figure 2A

 <p style="text-align: center;">BRIDGE 29-0190L/R</p>	 <p style="text-align: center;">BRIDGE 29-0189L/R</p>	 <p style="text-align: center;">BRIDGE 29-0173L/R</p>
 <p style="text-align: center;">BRIDGE 29-0188L/R</p>	 <p style="text-align: center;">BRIDGE 29-0196</p>	 <p style="text-align: center;">BRIDGE 29-0198L/R/S</p>
 <p style="text-align: center;">BRIDGE 29-0195L/R</p>	 <p style="text-align: center;">BRIDGE 29-0176L/R</p>	 <p style="text-align: center;">BRIDGE 29-0232L/R</p>
<div style="text-align: center;">  <p>GEOCON CONSULTANTS, INC. 3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742 PHONE 916 852-9118 - FAX 916 852-9132</p> </div> <p style="text-align: center;">I-5 North Stockton Widening Project (Package 1)</p> <p style="text-align: center;">Stockton, California</p> <p style="text-align: center;">SITE PLAN</p>		
<p style="text-align: center;">NOT TO SCALE</p>	<p style="text-align: center;">E8477-06-01</p>	<p style="text-align: center;">September 2009</p> <p style="text-align: center;">Figure 2B</p>

LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location



LEGEND:

- Approximate Asbestos Sample Location

NOT TO SCALE



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SITE PLAN

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Figure 2C

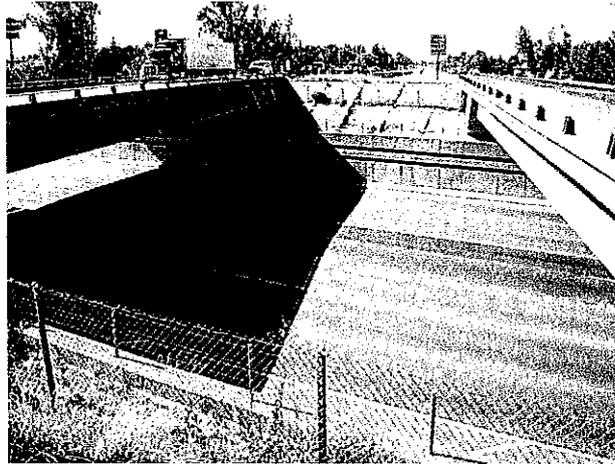


Photo 1 – Bridge 29-0212L/R

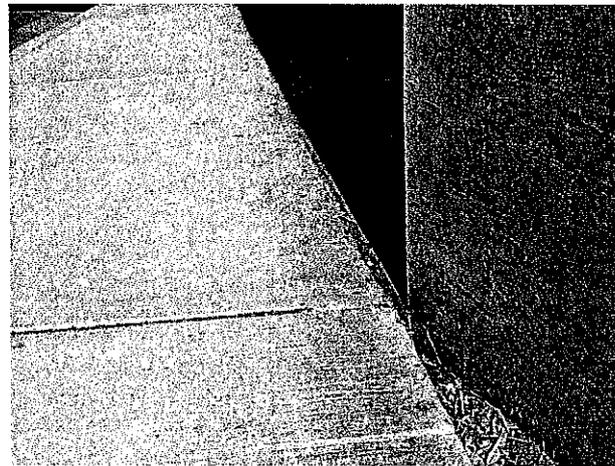


Photo 2 – Bridge 29-0212L/R joint fill material

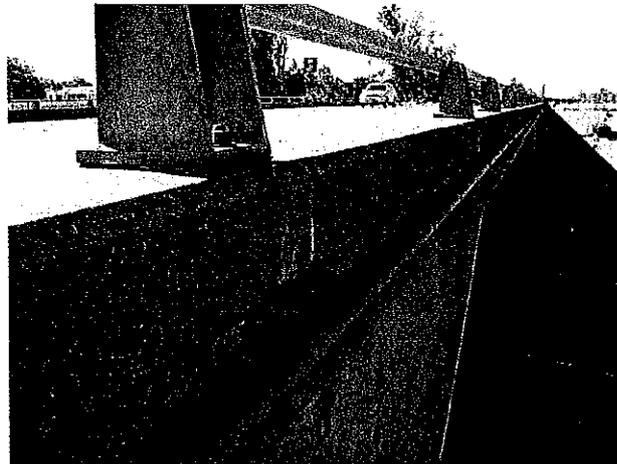


Photo 3 – Bridge 29-0212L/R barrier rails



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PHOTOGRAPHS 1, 2, & 3

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Photo 4 – Bridge 29-0212L/R deck joint (non-suspect)

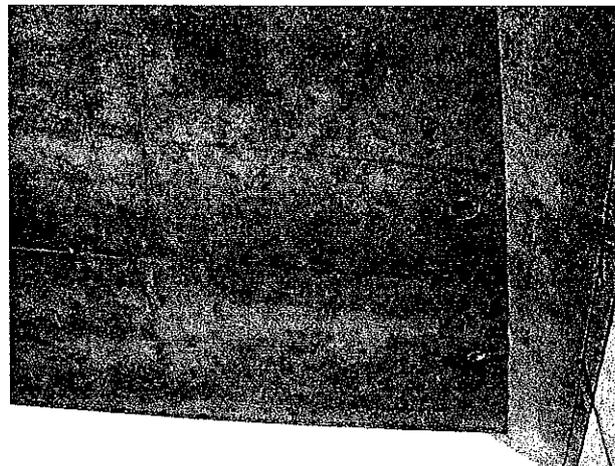


Photo 5 – Bridge 29-0212L/R drains (non-suspect)

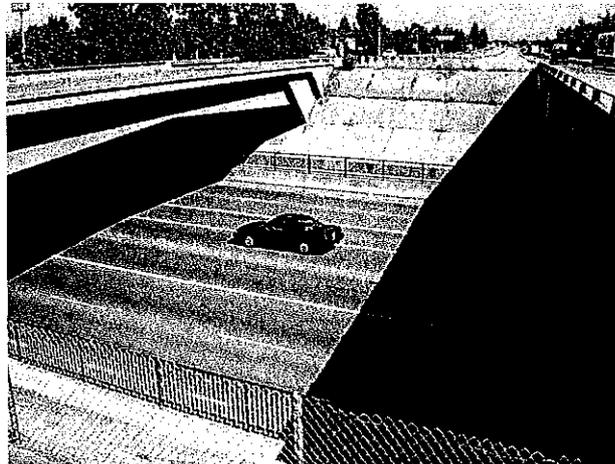


Photo 6 – Bridge 29-0194L/R



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PHOTOGRAPHS 4, 5, & 6

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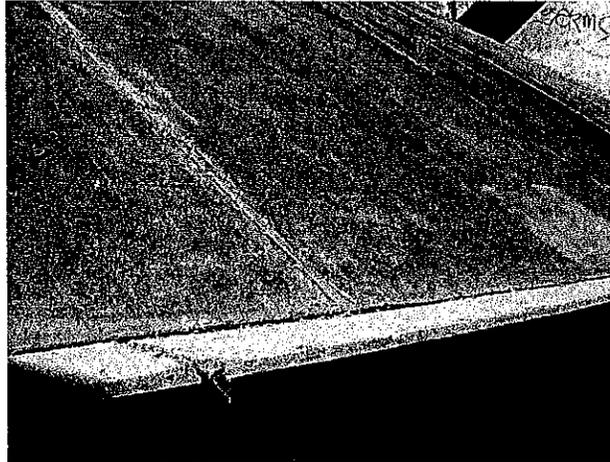


Photo 7 – Bridge 29-0194L/R joint fill material

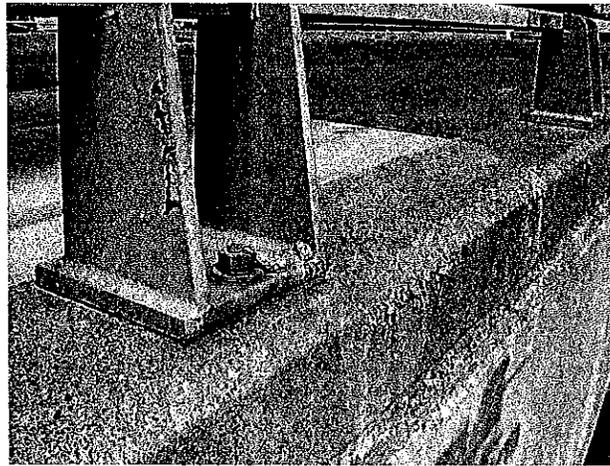


Photo 8 – Bridge 29-0194L/R barrier rails



Photo 9 – Bridge 29-0194L/R deck joint (non-suspect)



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PHOTOGRAPHS 7, 8, & 9

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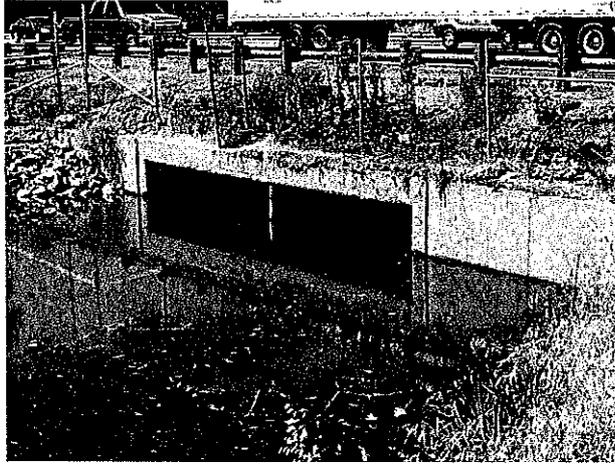


Photo 10 – Box culvert at Five Mile Slough



Photo 11 – Box culvert joint (non-suspect)



Photo 12 – Box culvert joint (non-suspect)



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PHOTOGRAPHS 10, 11, & 12

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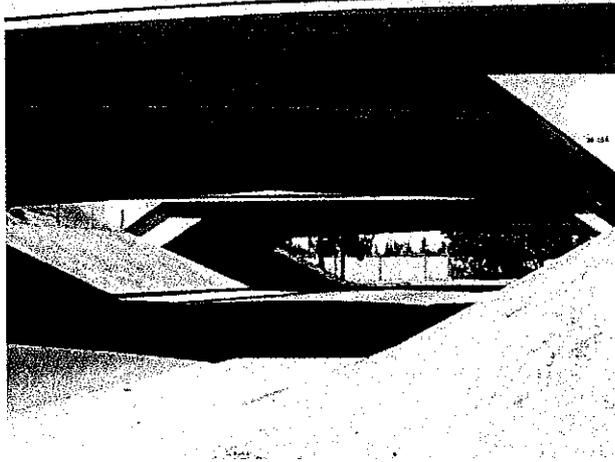


Photo 13 – Bridge 29-0215L/R

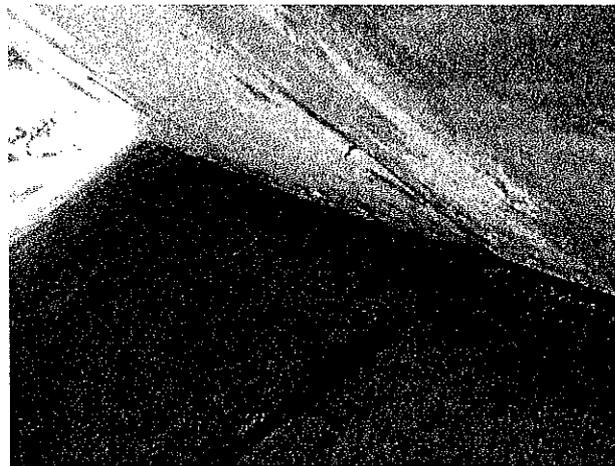


Photo 14 – Bridge 29-0215L/R joint fill material

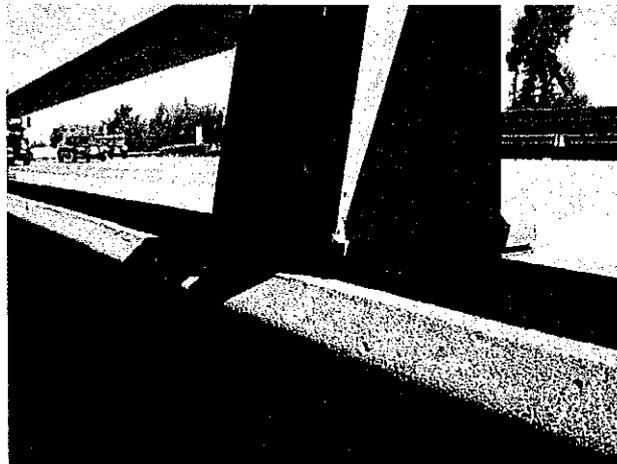


Photo 15 – Bridge 29-0215L/R barrier rails



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PHOTOGRAPHS 13, 14, & 15

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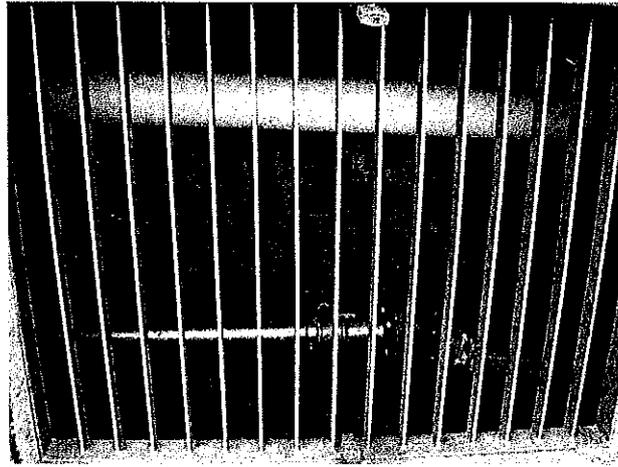


Photo 16 – Bridge 29-0215L/R drainpipe (non-suspect)

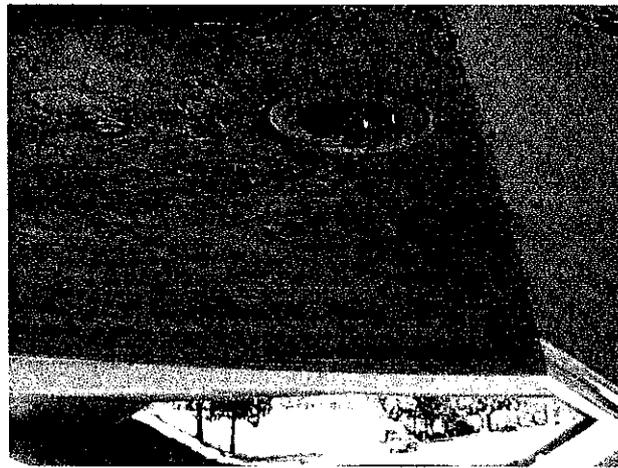


Photo 17 – Bridge 29-0215L/R drains (non-suspect)



Photo 18 – Bridge 29-0215L/R deck joint (non-suspect)



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PHOTOGRAPHS 16, 17, & 18

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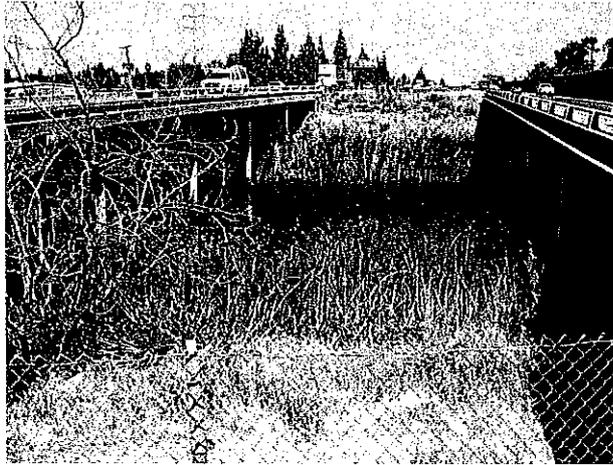


Photo 19 – Bridge 29-0175L/R

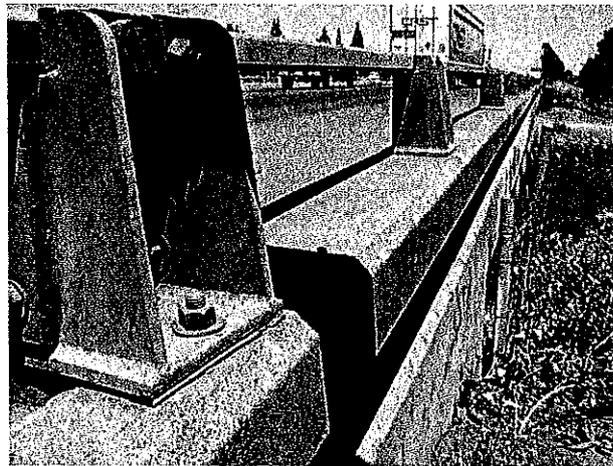


Photo 20 – Bridge 29-0175L/R barrier rails



Photo 21 – Bridge 29-0175L/R conduit (non-suspect)



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PHOTOGRAPHS 19, 20, & 21

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Photo 22 – Bridge 29-0175L/R headwall (non-suspect)



Photo 23 – Bridge 29-0175L/R deck joint (non-suspect)



Photo 24 – Bridge 29-0193L/R



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PHOTOGRAPHS 22, 23, & 24

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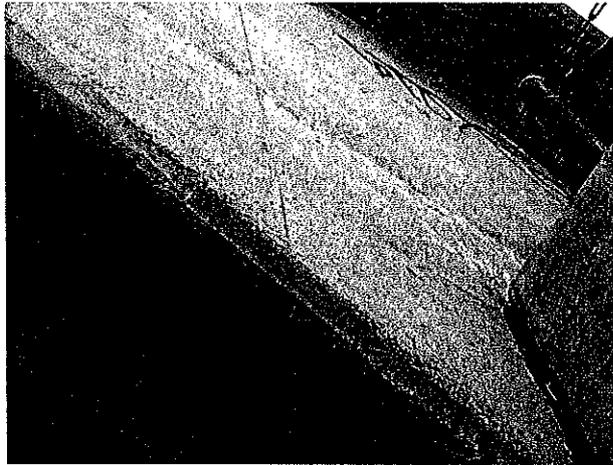


Photo 25 – Bridge 29-0193L/R joint fill material

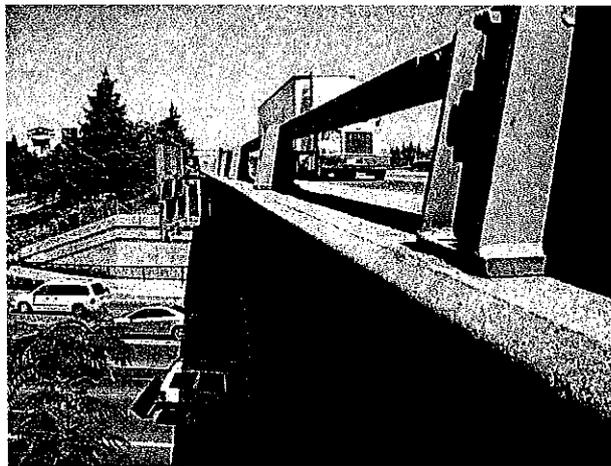


Photo 26 – Bridge 29-0193L/R barrier rails



Photo 27 – Bridge 29-0193L/R deck joint (non-suspect)



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PHOTOGRAPHS 25, 26, & 27

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Photo 28 – Bridge 29-0193L/R drains (non-suspect)



Photo 29 – Bridge 29-0226L/R/S



Photo 30 – Bridge 29-0226L/R/S barrier rails



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PHOTOGRAPHS 28, 29, & 30

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Photo 31 – Bridge 29-0226L/R/S drainage systems (non-suspect)

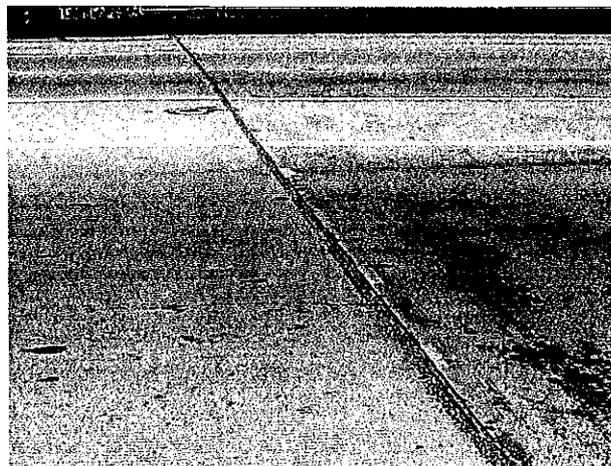


Photo 32 – Bridge 29-0226L/R/S deck joint (non-suspect)

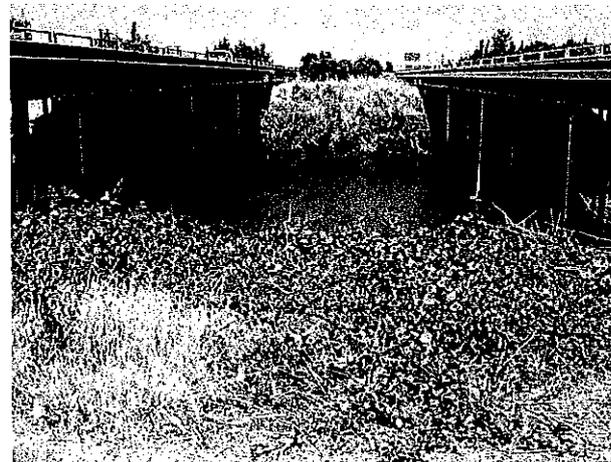


Photo 33 – Bridge 29-0174L/R



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PHOTOGRAPHS 31, 32, & 33

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Photo 34 – Bridge 29-0174L/R joint fill material (span)

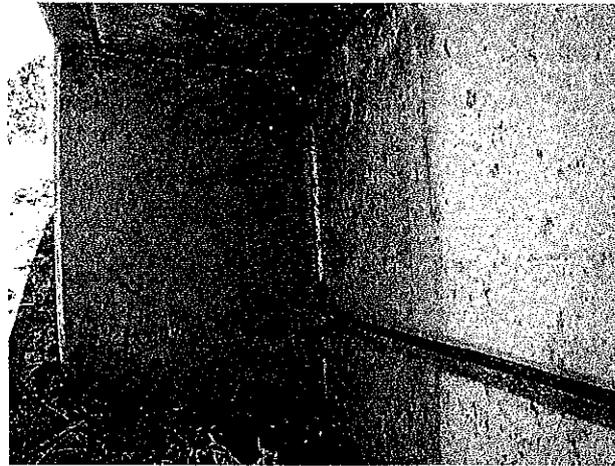


Photo 35 – Bridge 29-0174L/R joint fill material (abutment)

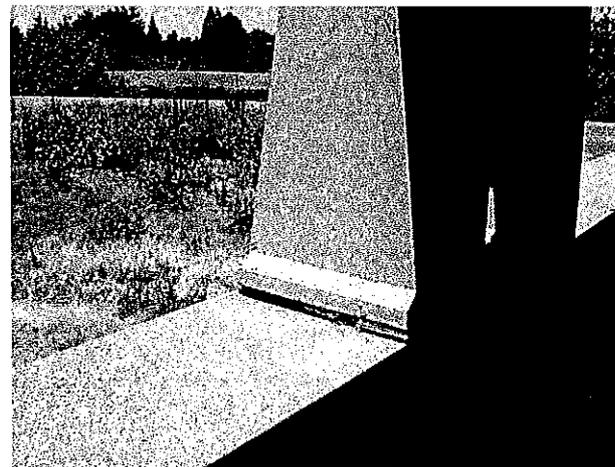


Photo 36 – Bridge 29-0174L/R barrier rails



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PHOTOGRAPHS 34, 35, & 36

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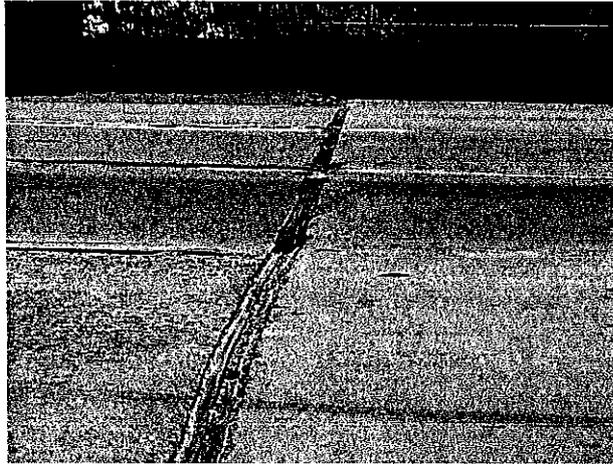


Photo 37 – Bridge 29-0174L/R deck joint (non-suspect)

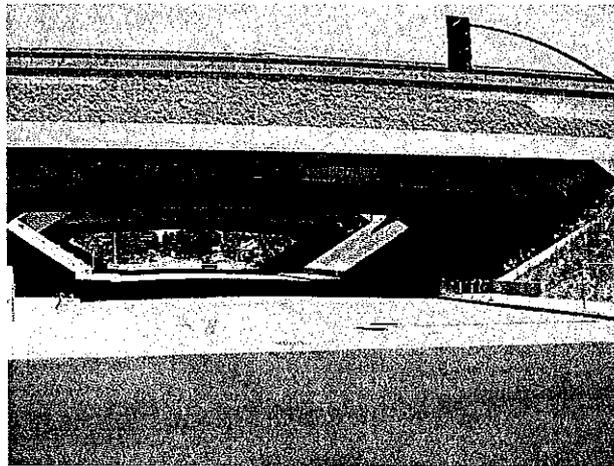


Photo 38 – Bridge 29-0192L/R

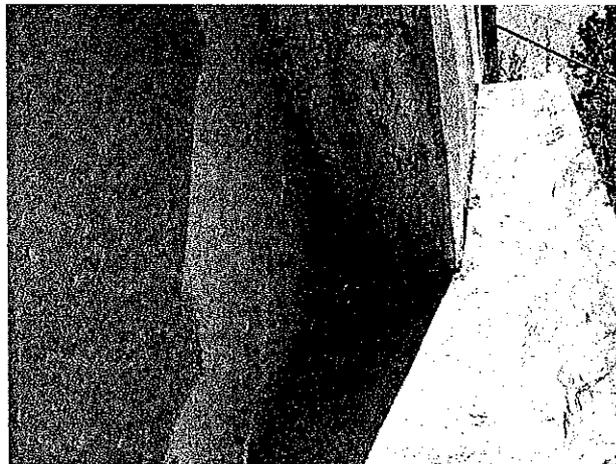


Photo 39 – Bridge 29-0192L/R joint fill material



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PHOTOGRAPHS 37, 38, & 39

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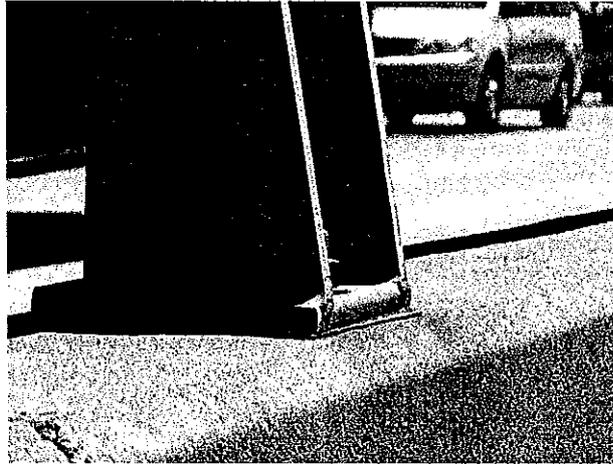


Photo 40 – Bridge 29-0192L/R barrier rails



Photo 41 – Bridge 29-0192L/R deck joint (non-suspect)



Photo 42 – Bridge 29-0192L/R drains (non-suspect)



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PHOTOGRAPHS 40, 41, & 42

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Photo 43 – Bridge 29-0191L/R



Photo 44 – Bridge 29-0191L/R joint fill material

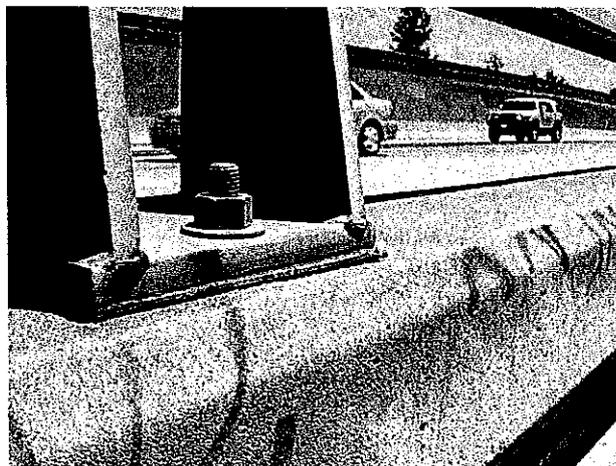


Photo 45 – Bridge 29-0191L/R barrier rails



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PHOTOGRAPHS 43, 44, & 45

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Photo 46 – Bridge 29-0191L/R drains (non-suspect)



Photo 47 – Bridge 29-0191L/R deck joint (non-suspect)

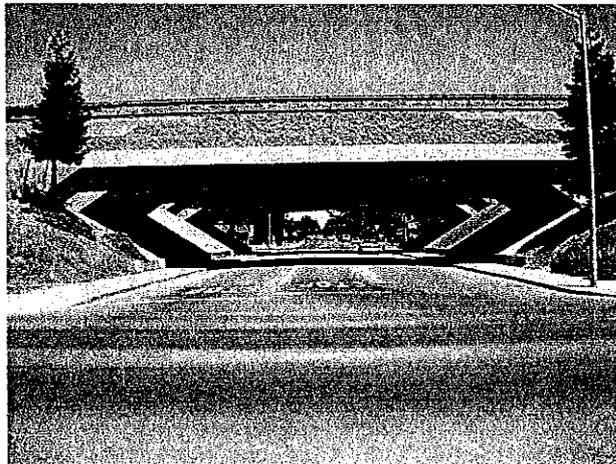


Photo 48 – Bridge 29-0190L/R



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PHOTOGRAPHS 46, 47, & 48

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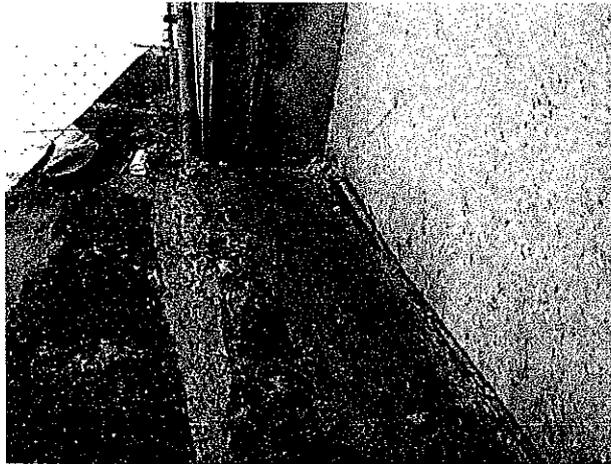


Photo 49 – Bridge 29-0190L/R joint fill material



Photo 50 – Bridge 29-0190L/R barrier rails



Photo 51 – Bridge 29-0190L/R deck joint (non-suspect)



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PHOTOGRAPHS 49, 50, & 51

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Photo 52 – Bridge 29-0190L/R drains (non-suspect)

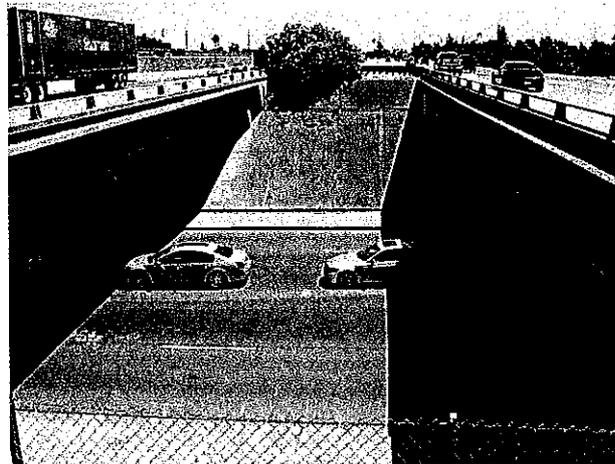


Photo 53 – Bridge 29-0189L/R

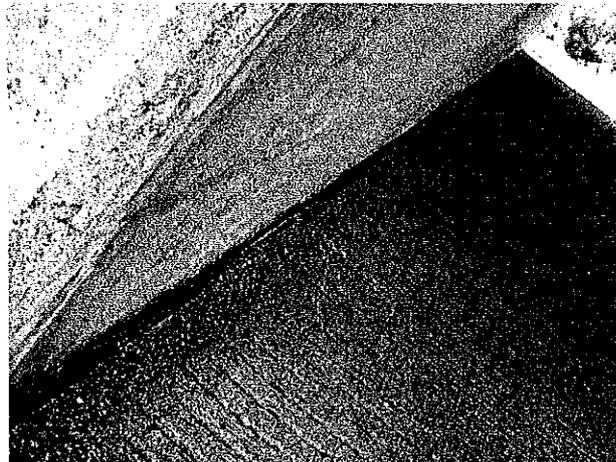


Photo 54 – Bridge 29-0189L/R joint fill material



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PHOTOGRAPHS 52, 53, & 54

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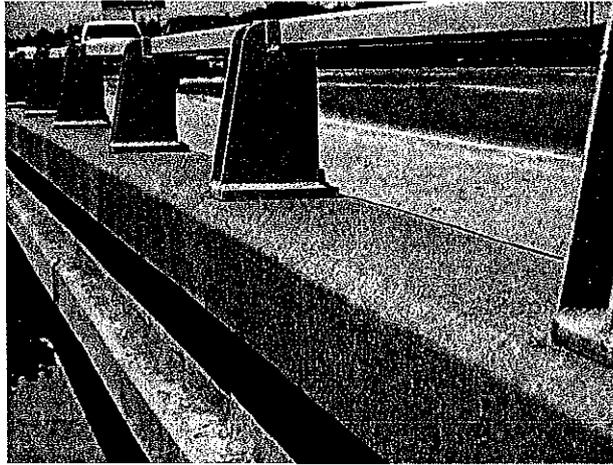


Photo 55 – Bridge 29-0189L/R barrier rails

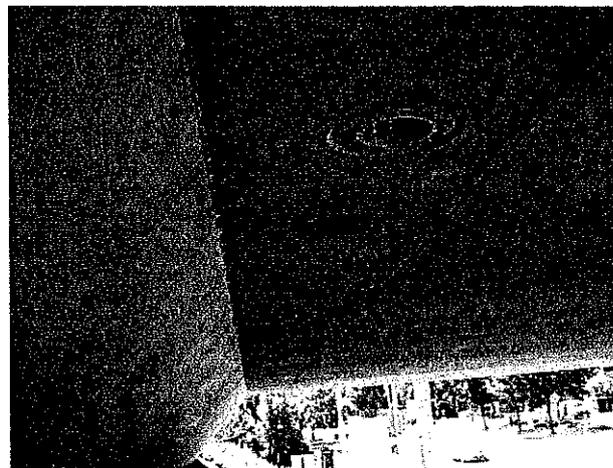


Photo 56 – Bridge 29-0189L/R drains (non-suspect)



Photo 57 – Bridge 29-0189L/R deck joint (non-suspect)



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PHOTOGRAPHS 55, 56, & 57

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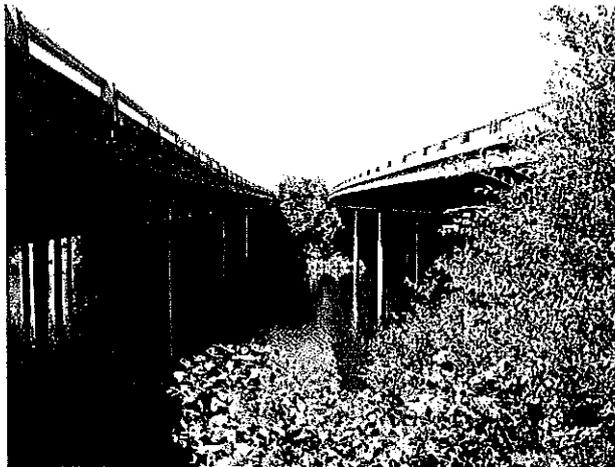


Photo 58 – Bridge 29-0173L/R



Photo 59 – Bridge 29-0173L/R joint fill material

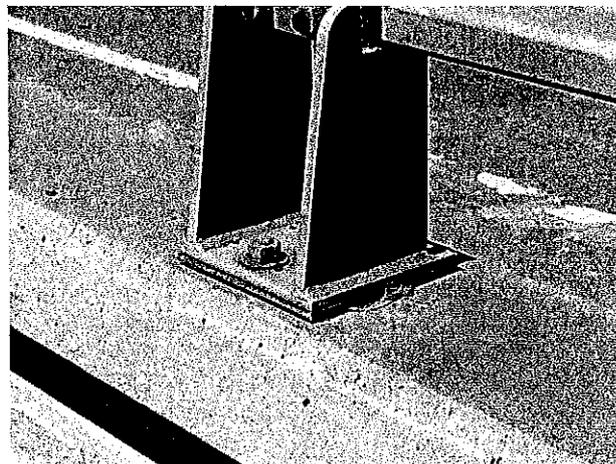


Photo 60 – Bridge 29-0173L/R barrier rails



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PHOTOGRAPHS 58, 59, & 60

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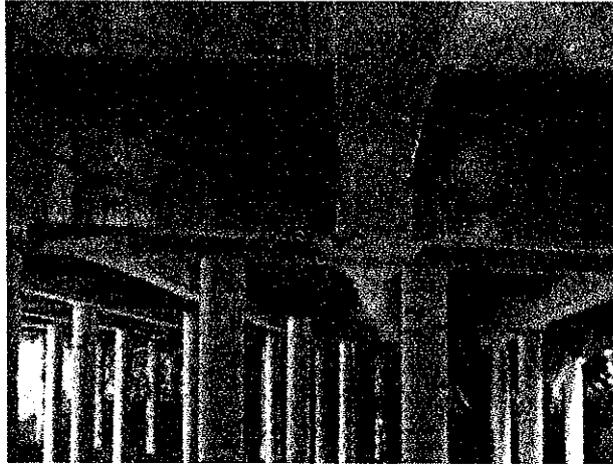


Photo 61 – Bridge 29-0173L/R columns and concrete girders (non-suspect)



Photo 62 – Bridge 29-0173L/R deck joint (non-suspect)



Photo 63 – Bridge 29-0188L/R



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PHOTOGRAPHS 61, 62, & 63

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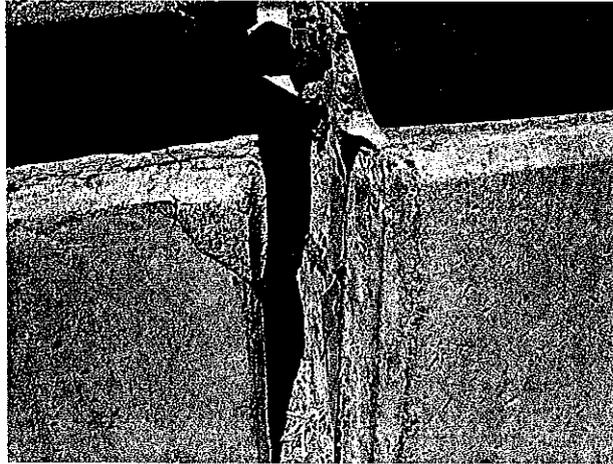


Photo 64 – Bridge 29-0188L/R joint fill material

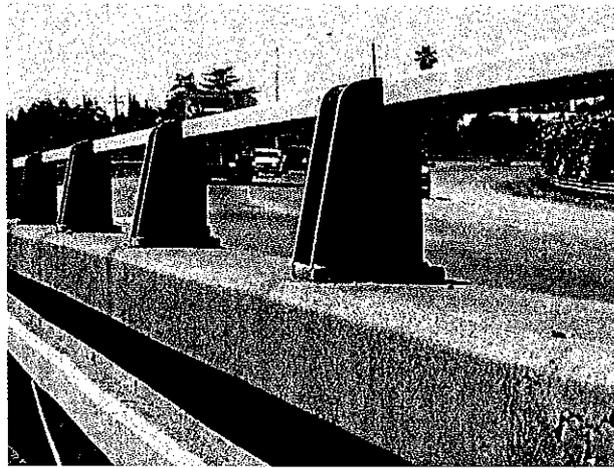


Photo 65 – Bridge 29-0188L/R barrier rails



Photo 66 – Bridge 29-0188L/R deck joint (non-suspect)



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PHOTOGRAPHS 64, 65, & 66

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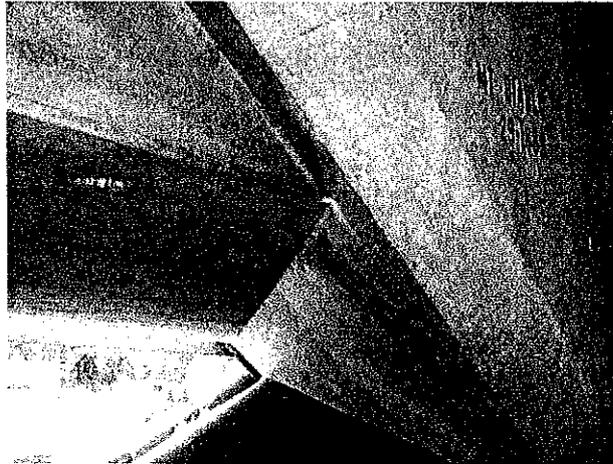


Photo 67 – Bridge 29-0188L/R drains (non-suspect)

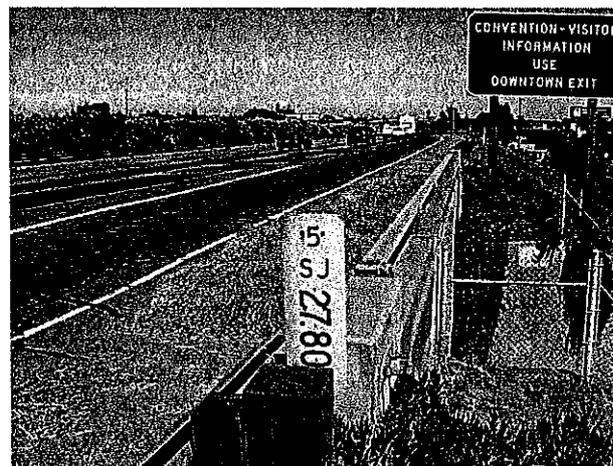


Photo 68 – Bridge 29-0196



Photo 69 – Bridge 29-0196 barrier rails



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PHOTOGRAPHS 67, 68, & 69

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Photo 70 – Bridge 29-0196 deck joint (non-suspect)

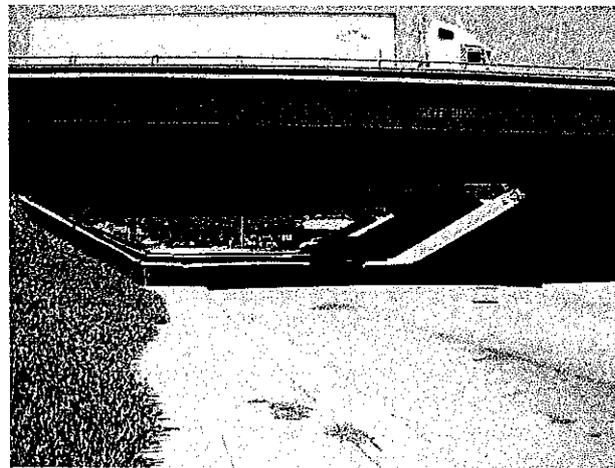


Photo 71 – Bridge 29-0198L/R/S



Photo 72 – Bridge 29-0198L/R/S joint fill material



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PHOTOGRAPHS 70, 71, & 72

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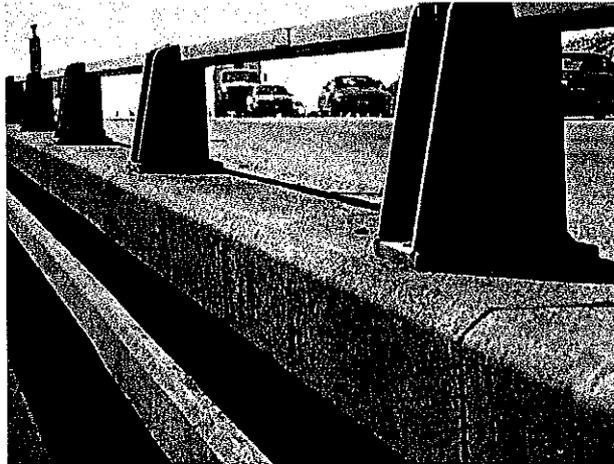


Photo 73 – Bridge 29-0198L/R/S barrier rails



Photo 74 – Bridge 29-0198L/R/S deck joint (non-suspect)

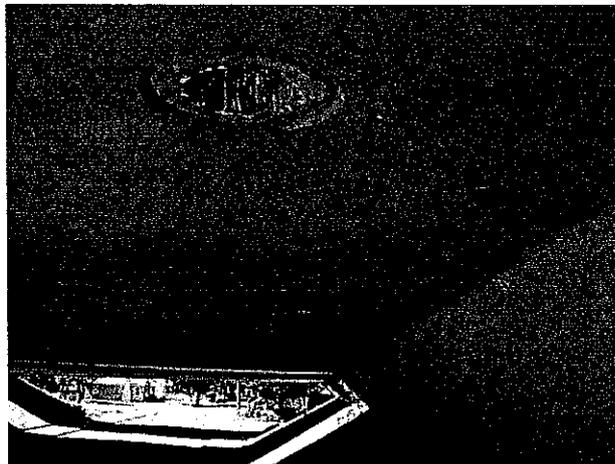


Photo 75 – Bridge 29-0198L/R/S drains (non-suspect)



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PHOTOGRAPHS 73, 74, & 75

I-5 North Stockton Widening Project (Package 1)
Stockton, California

E8477-06-01

September 2009

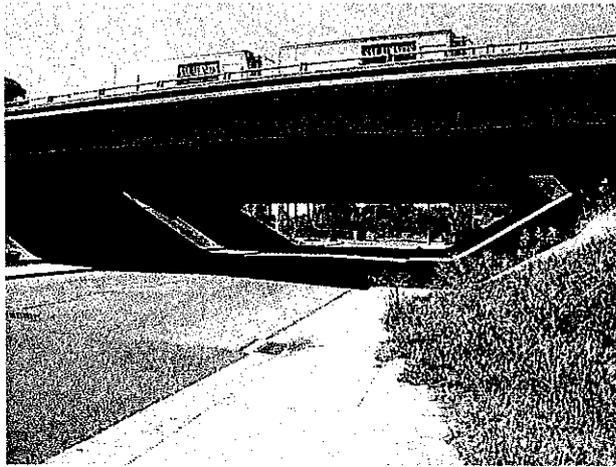


Photo 76 – Bridge 29-0195L/R

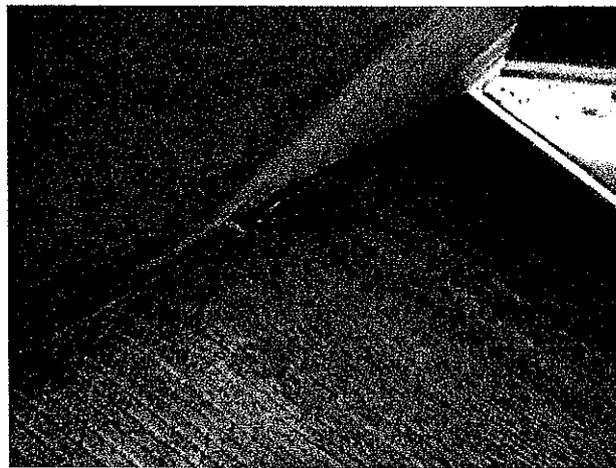


Photo 77 – Bridge 29-0195L/R joint fill material

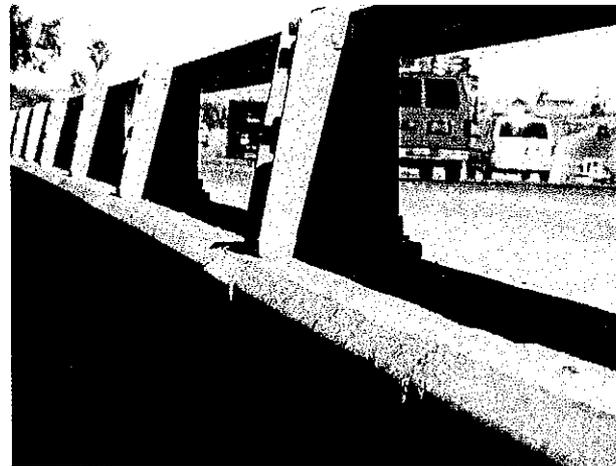


Photo 78 – Bridge 29-0195L/R barrier rails



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PHOTOGRAPHS 76, 77, & 78

I-5 North Stockton Widening Project (Package 1)
Stockton, California

E8477-06-01

September 2009



Photo 79 – Bridge 29-0195L/R deck joint (non-suspect)

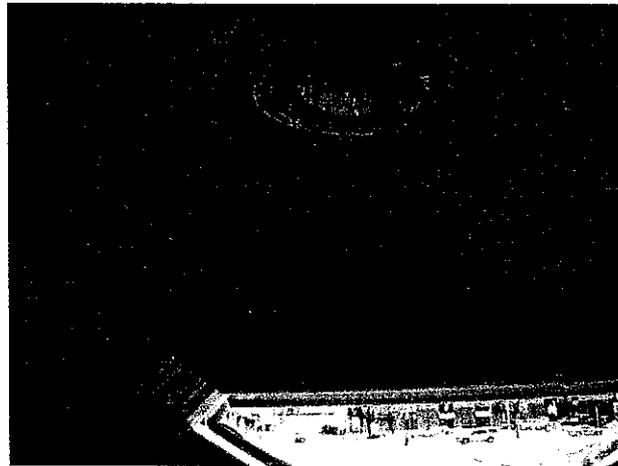


Photo 80 – Bridge 29-0195L/R drains (non-suspect)



Photo 81 – Bridge 29-0176L/R



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PHOTOGRAPHS 79, 80, & 81

I-5 North Stockton Widening Project (Package 1)
Stockton, California

E8477-06-01

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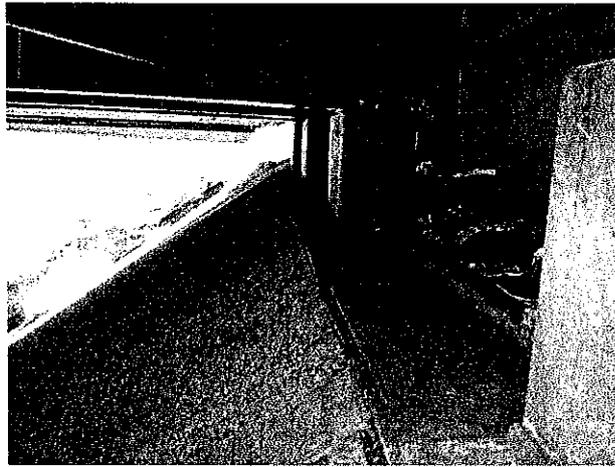


Photo 82 – Bridge 29-0176L/R joint fill material

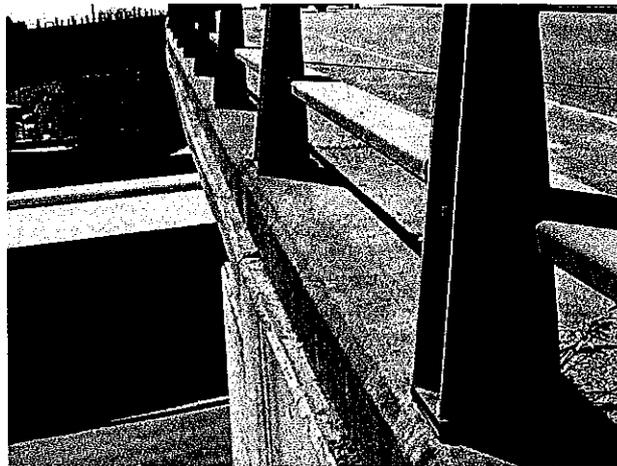


Photo 83 – Bridge 29-0176L/R barrier rails

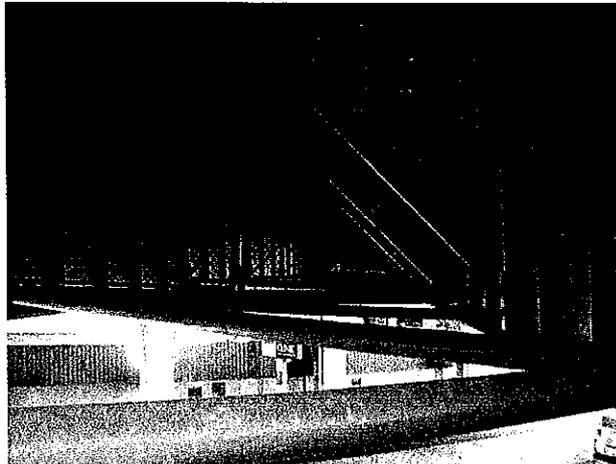


Photo 84 – Bridge 29-0176L/R truss and girder systems



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PHOTOGRAPHS 82, 83, & 84

I-5 North Stockton Widening Project (Package 1)
Stockton, California

E8477-06-01

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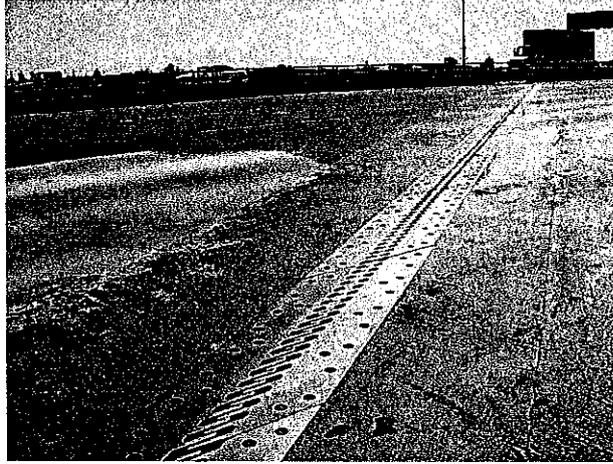


Photo 85 – Bridge 29-0176L/R deck joint (non-suspect)



Photo 86 – Bridge 29-0232L/R



Photo 87 – Bridge 29-0232L/R drains (non-suspect) and joint fill material



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PHOTOGRAPHS 85, 86, & 87

I-5 North Stockton Widening Project (Package 1)
Stockton, California

E8477-06-01

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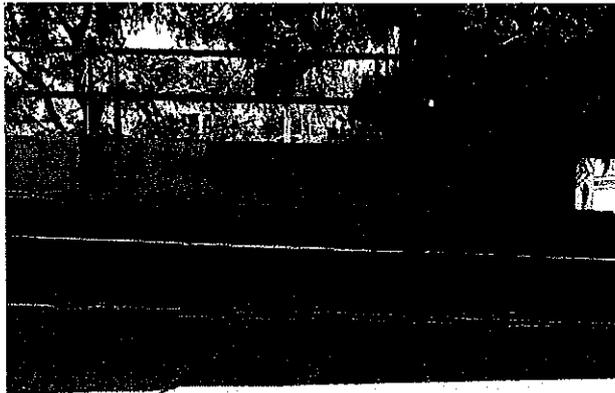


Photo 88 – Bridge 29-0232L/R barrier rails

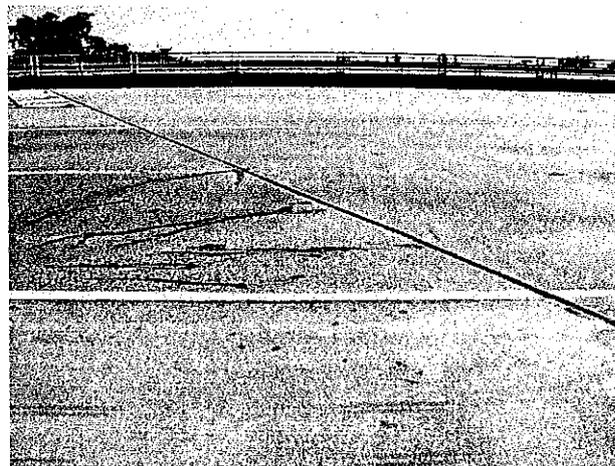


Photo 89 – Bridge 29-0232L/R deck joint (non-suspect)



Photo 90 – Bridge 29-0231L/R



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PHOTOGRAPHS 88, 89, & 90

I-5 North Stockton Widening Project (Package 1)
Stockton, California

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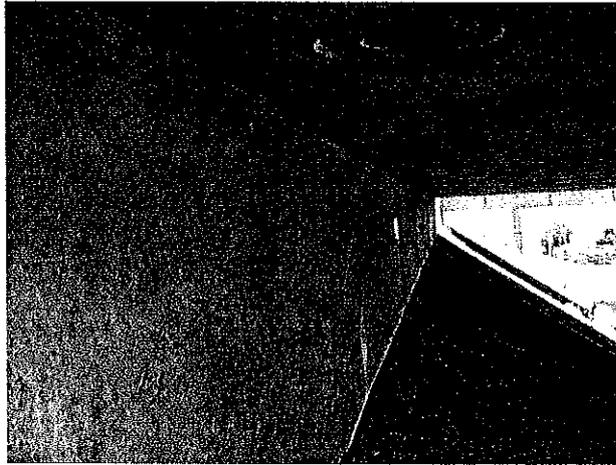


Photo 91 – Bridge 29-0231L/R drains (non-suspect) and joint fill material

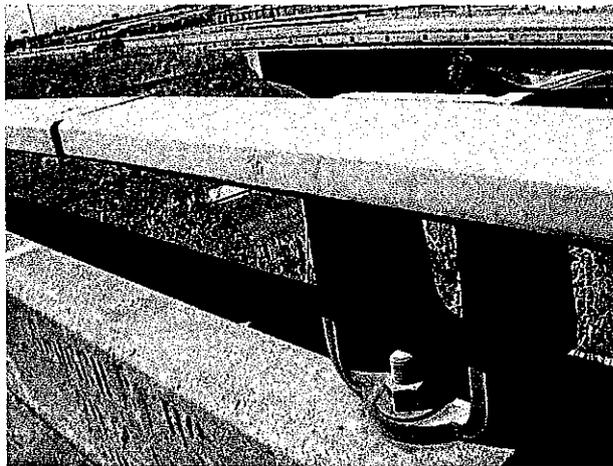


Photo 92 – Bridge 29-0231L/R barrier rails



Photo 93 – Bridge 29-0231L/R deck joint (non-suspect)



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PHOTOGRAPHS 91, 92, & 93

I-5 North Stockton Widening Project (Package 1)
Stockton, California

E8477-06-01

September 2009



Photo 94 – Bridge 29-0230L/R

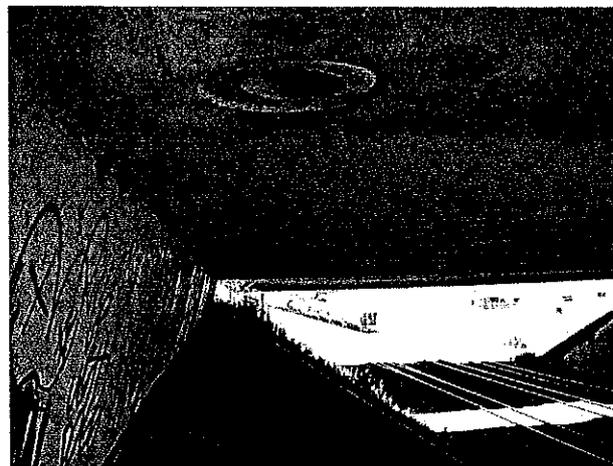


Photo 95 – Bridge 29-0230L/R drains (non-suspect) and joint fill material

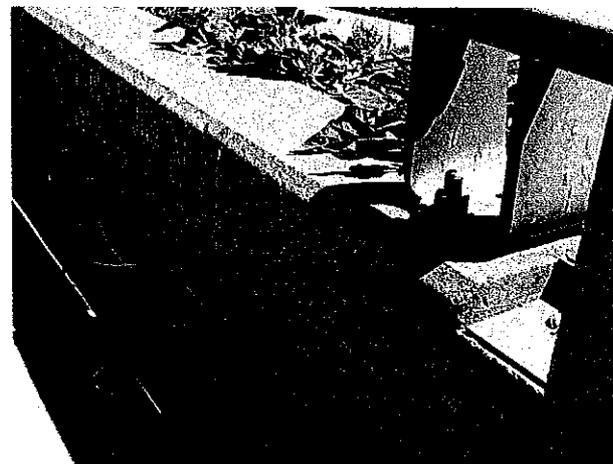


Photo 96 – Bridge 29-0230L/R barrier rails



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PHOTOGRAPHS 94, 95, & 96

I-5 North Stockton Widening Project (Package 1)
Stockton, California

E8477-06-01

September 2009



Photo 97 – Bridge 29-0230L/R deck joint (non-suspect)

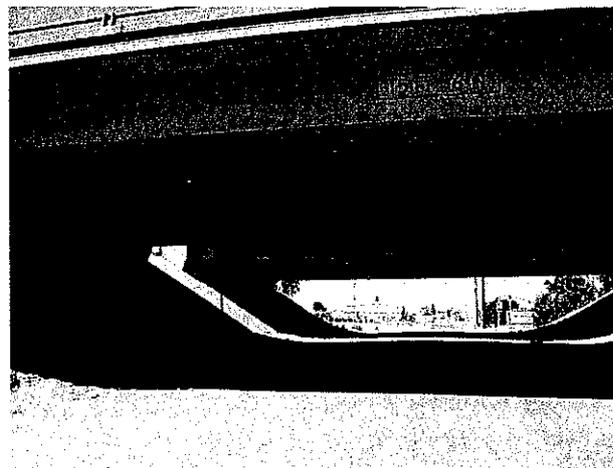


Photo 98 – Bridge 29-0229L/R

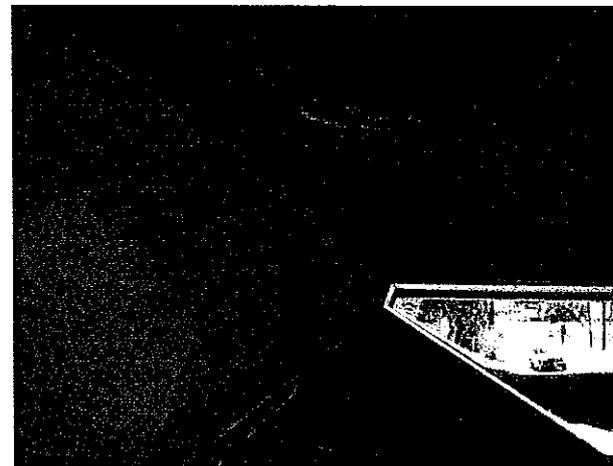


Photo 99 – Bridge 29-0229L/R drains (non-suspect) and joint fill material



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PHOTOGRAPHS 97, 98, & 99

I-5 North Stockton Widening Project (Package 1)
Stockton, California

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September 2009

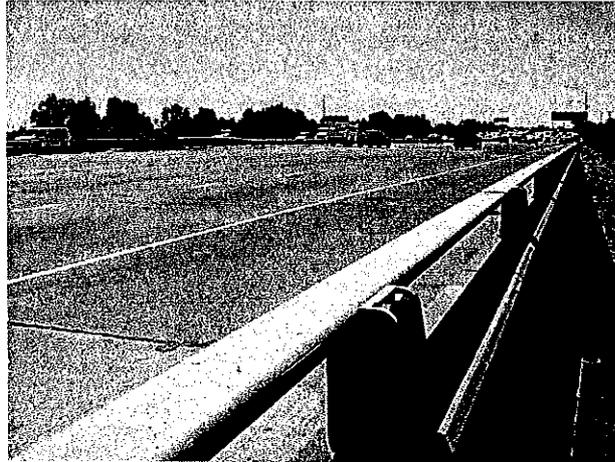


Photo 100 – Bridge 29-0229L/R barrier rails



Photo 101 – Bridge 29-0229L/R deck joint (non-suspect)



Photo 102 – Bridge 29-0225L/R



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PHOTOGRAPHS 100, 101, & 102

I-5 North Stockton Widening Project (Package 1)
Stockton, California

E8477-06-01

September 2009

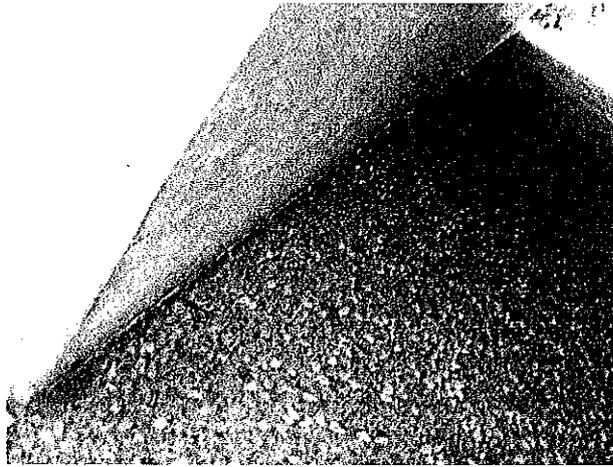


Photo 103 – Bridge 29-0225L/R joint fill material



Photo 104 – Bridge 29-0225L/R barrier rails

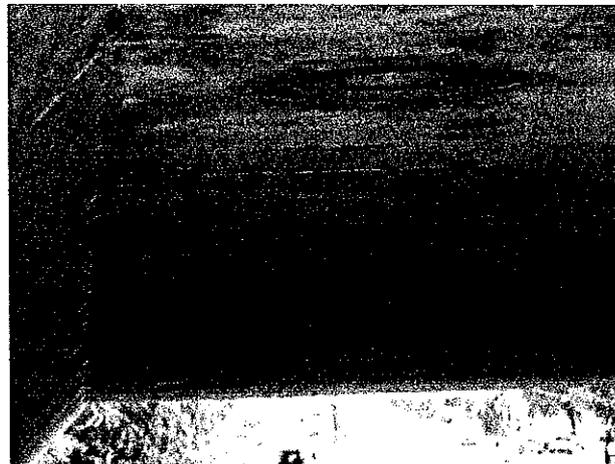


Photo 105 – Bridge 29-0225L/R drains (non-suspect)



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PHOTOGRAPHS 103, 104, & 105

I-5 North Stockton Widening Project (Package 1)
Stockton, California

E8477-06-01

September 2009

TABLE 1
SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS - ASBESTOS
I-5 NORTH STOCKTON WIDENING PROJECT (PACKAGE I)
STOCKTON, CALIFORNIA

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116

Bridge No.	Sample Group No.	Description of Material	Approximate Quantity	Friable	Site Photo	Asbestos Content
29-0212L/R	0212L/R-1 0212L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	2 3	ND 60%
29-0194L/R	0194L/R-1 0194L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	7 8	ND 65%
29-0215L/R	0215L/R-1 0215L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	14 15	ND 65%
29-0175L/R	0175L/R-1	Barrier rail shims	Unable to safely quantify	No	20	70%
29-0193L/R	0193L/R-1 0193L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	25 26	ND 70%
29-0226L/R/S	0226L/R/S-1	Barrier rail shims	Unable to safely quantify	No	30	65%
29-0174L/R	0174L/R-1 0174L/R-2 0174L/R-3	Expansion joint fill material (span) Expansion joint fill material (abutments) Barrier rail shims	NA NA Unable to safely quantify	NA NA No	34 35 36	ND ND 65%
29-0192L/R	0192L/R-1 0192L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	39 40	ND 80%
29-0191L/R	0191L/R-1 0191L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	44 45	ND 65%
29-0190L/R	0190L/R-1 0190L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	49 50	ND 70%
29-0189L/R	0189L/R-1 0189L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	54 55	ND 70%
29-0173L/R	0173L/R-1 0173L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	59 60	ND 70%

TABLE 1
SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS - ASBESTOS
I-5 NORTH STOCKTON WIDENING PROJECT (PACKAGE 1)
STOCKTON, CALIFORNIA

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116

Bridge No.	Sample Group No.	Description of Material	Approximate Quantity	Friable	Site Photo	Asbestos Content
29-0188L/R	0188L/R-1 0188L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	64 65	ND 70%
29-0196	0196-1	Barrier rail shims	Unable to safely quantify	No	69	70%
29-0198L/R/S	0198L/R/S-1 0198L/R/S-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	72 73	ND 70%
29-0195L/R	0195L/R-1 0195L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	77 78	ND 70%
29-0176L/R	0176L/R-1 0176L/R-2 0176L/R-3	Expansion joint fill material Barrier rail shims Textured paint	NA Unable to safely quantify NA	NA No NA	82 83 84	ND 60% ND
29-0232L/R	0232L/R-1 0232L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	87 88	ND 60%
29-0231L/R	0231L/R-1 0231L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	91 92	ND 80%
29-0230L/R	0230L/R-1 0230L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	95 96	ND 70%
29-0229L/R	0229L/R-1 0229L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	99 100	ND 70%
29-0225L/R	0225L/R-1 0225L/R-2	Expansion joint fill material Barrier rail shims	NA Unable to safely quantify	NA No	103 104	ND 70%

Notes:

NA = Not applicable (no asbestos detected)

ND = No asbestos fibers detected

TABLE 2
SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS - PAINT
I-5 NORTH STOCKTON WIDENING PROJECT (PACKAGE 1)
STOCKTON, CALIFORNIA

Total and Soluble Lead					
Sample ID	Paint Description	Approximate Quantity Peeling and Flaking	Site Photos	Total Lead (mg/kg)	TCLP Lead (mg/l)
0176L/R-P1A 0176L/R-P1B	Orange paint (Bridge 29-0176L/R truss and girder systems)	Intact	81, 82, and 84	36,000 120,000	66

Notes:
mg/kg = milligrams per kilogram (EPA Test Method 6010)
mg/l = milligrams per liter
TCLP = Toxicity Characteristic Leaching Procedure (EPA Test Method 1311)

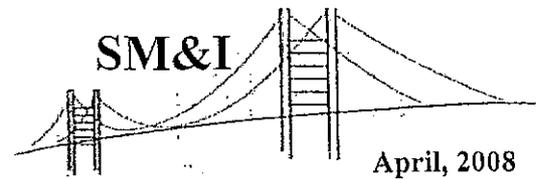
APPENDIX



A



Structure Maintenance & Investigations



Log of Bridges on State Highways

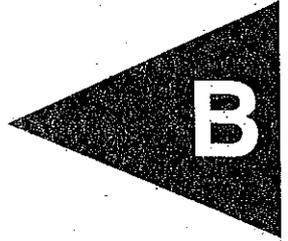
April, 2008

DISTRICT 10

10-SJ-005

Postmile	Bridge Number	OU	Structure Name or Route Information	Structure Types		City	Bridge Length	Width	Min VC		Year Built	Year Wid/Ext	Permit Rating	P
				Main	Appr				Spans	over Rdway				
_025.35	29 0225L	O	ROUTE 5/4 SEPARATION (CHARTER)	505		STKN	45.7	20.7	1	4.75	1971		PPPPP	
_025.35	29 0225R	O	ROUTE 5/4 SEPARATION	505		STKN	46.0	20.7	1	5.28	1971		PPPPP	
_025.64	29 0229L	O	ANDERSON STREET UC	505		STKN	33.5	24.4	1	4.75	1971		PPPPP	
_025.64	29 0229R	O	ANDERSON STREET UC	505		STKN	33.5	24.4	1	4.77	1971		PPPPP	
_025.78	29 0230L	O	TAYLOR STREET OH	505		STKN	43.0	28.3	1	7.19	1972		PPPPG	
_025.78	29 0230R	O	TAYLOR STREET OH	505		STKN	43.0	31.1	1	7.24	1972		PPPPG	
_025.99	29 0231L	O	CHURCH STREET UC	505		STKN	52.1	20.7	1	9.14	1972		PPPPG	
_025.99	29 0231R	O	CHURCH STREET UC	505		STKN	51.5	20.7	1	9.75	1972		PPPPG	
_026.12	29 0232L	O	ROUTE 5/4 SEPARATION	205		STKN	224.9	20.7	6	4.93	1972		PPPPP	
_026.12	29 0232R	O	ROUTE 5/4 SEPARATION	105		STKN	228.6	20.7	7	5.36	1972		PPPPP	
_026.19			JCT RTE 4 SPUR			STKN								
_026.47	29 0176L	O	STOCKTON CHANNEL VIADUCT	302		STKN	830.6	20.7	13	8.53	1972		PPGOO	
_026.47	29 0176R	O	STOCKTON CHANNEL VIADUCT	302		STKN	830.6	20.7	14	11.89	1972		PPPGO	
_027.28	29 0195L	O	BUENA VISTA UC	505		STKN	33.5	20.7	1	4.87	1970		PPPPP	
_027.28	29 0195R	O	BUENA VISTA UC	505		STKN	33.5	25.0	1	4.75	1970	2003	PPPPP	
_027.66	29 0198L	O	CARLTON AVENUE UC	505		STKN	35.1	22.6	1	5.33	1970		PPPPG	
_027.66	29 0198R	O	CARLTON AVENUE UC	505		STKN	35.1	20.7	1	4.97	1970		PPPPG	
_027.66	29 0198S	O	CARLTON AVENUE UC	505		STKN	36.0	8.7	1	4.55	1970	2003	PPPPG	
_027.79	29 0196	O	WEST ACACIA STREET OH	101		STKN	7.0	57.9	1	0	1970		PPPPP	
_027.91	29 0188L	O	MONTE DIABLO AVENUE UC	505		STKN	50.6	20.7	1	5.18	1970		PPPPP	
_027.91	29 0188R	O	MONTE DIABLO AVENUE UC	505		STKN	51.2	25.5	1	4.95	1970	2005	PPPPP	
_028.26	29 0173L	O	SMITH CANAL	204		STKN	124.1	22.6	8	5.18	1968		PPPPP	
_028.26	29 0173R	O	SMITH CANAL	204		STKN	124.4	20.7	8	4.55	1968	2004	PPPPP	
_028.53	29 0189L	O	COUNTRY CLUB BLVD UC	505		STKN	38.4	16.4	1	4.83	1970		PPPPG	
_028.53	29 0189R	O	COUNTRY CLUB BLVD UC	505		STKN	38.4	20.7	1	4.85	1970		PPPGO	
_028.75	29 0190L	O	MICHIGAN AVENUE UC	505			30.5	16.2	1	4.7	1970		PPPPP	
_028.75	29 0190R	O	MICHIGAN AVENUE UC	505			30.5	16.2	1	4.78	1970		PPPPP	
_028.97	29 0191L	O	ALPINE AVENUE UC	505			35.7	16.2	1	4.7	1970		PPPPP	
_028.97	29 0191R	O	ALPINE AVENUE UC	505			35.7	16.2	1	4.62	1970		PPPPP	
_029.19	29 0192L	O	TELEGRAPH AVENUE UC	505			30.5	15.7	1	4.6	1970	1996	PPPPP	
_029.19	29 0192R	O	TELEGRAPH AVENUE UC	505			30.5	15.7	1	4.6	1970	1996	PPPPP	
_029.56	29 0174L	O	CALAVERAS RIVER	204			158.5	18.2	11	4.62	1968		PPPPP	
_029.56	29 0174R	O	CALAVERAS RIVER	204			158.5	18.2	11	4.55	1968		PPPPP	
_029.83	29 0226L	O	EBMUD AQUEDUCT UC	205			75.6	20.3	4	0	1970		PPPPP	
_029.83	29 0226R	O	EBMUD AQUEDUCT UC	205			75.6	16.2	4	0	1970		PPPPP	
_029.83	29 0226S	O	EBMUD AQUEDUCT UC	205			78.0	7.9	4	0	1970		PPPPP	
_029.99	29 0193L	O	MARCH LANE UC	505		STKN	40.8	16.2	1	4.47	1970		PPPPG	
_029.99	29 0193R	O	MARCH LANE UC	505		STKN	40.8	16.2	1	4.45	1970		PPPPG	
_031.00	29 0175L	O	FOURTEEN MILE SLOUGH	201		STKN	65.2	16.2	7	0	1968		PPPPP	
_031.00	29 0175R	O	FOURTEEN MILE SLOUGH	201		STKN	65.2	16.4	7	0	1968		PPPPP	
_031.11	29 0215L	O	SWAIN ROAD UC	505			31.7	16.2	1	4.62	1970		PPPPP	
_031.11	29 0215R	O	SWAIN ROAD UC	505			31.7	16.2	1	4.6	1970		PPPPP	
_031.45	29 0194L	O	BEN HOLT DRIVE UC	505		STKN	33.7	16.2	1	4.78	1970		PPPPP	
_031.45	29 0194R	O	BEN HOLT DRIVE UC	505		STKN	38.7	16.2	1	4.72	1970		PPPPP	
_032.66	29 0212L	O	HAMMER LANE UC	505		STKN	43.9	16.2	1	4.65	1970		PPPPP	
_032.66	29 0212R	O	HAMMER LANE UC	505		STKN	43.9	16.2	1	4.57	1970		PPPPP	

APPENDIX





EMSL Analytical, Inc

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

Phone: (510) 895-3675 Fax: (510) 895-3680 Email: mlpitastlab@emsl.com

Attn: David Watts
Geocon Consultants
6671 Brisa Street
Livermore, CA 94550

Customer ID: GECN21
Customer PO: E8477-06-01
Received: 07/28/09 9:00 AM
EMSL Order: 090906057

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: E8477-06-01, San Joaquin Co., I-5 Stockton

EMSL Proj:
Analysis Date: 8/1/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0212 L/R-1A EJM 090906057-0007		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)

Adam C. Fink (25)
Jorge Leon (45)


Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as \leq 1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc San Leandro 2235 Polvorosa Ave , Suite 230, San Leandro CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007



EMSL Analytical, Inc

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **David Watts**
Geocon Consultants
6671 Brisa Street
Livermore, CA 94550

Customer ID: GECN21
Customer PO: E8477-06-01
Received: 07/28/09 9:00 AM
EMSL Order: 090906057

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: E8477-06-01, San Joaquin Co., I-5 Stockton

EMSL Proj:
Analysis Date: 8/1/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0212 L/R-1B EJM 090906057-0008		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0212 L/R-2A-SHIMS 090906057-0009		Gray/Black Fibrous Homogeneous		40% Non-fibrous (other)	60% Chrysotile
0194 L/R-1A-EJM 090906057-0010		Brown Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
0194 L/R-1B EJM 090906057-0011		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0194 L/R-2A-SHIMS 090906057-0012		Gray/Black Fibrous Homogeneous		35% Non-fibrous (other)	65% Chrysotile
0215-L/R-1A-EJM 090906057-0013		Brown Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0215-L/R-1B EJM 090906057-0014		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)

Adam C. Fink (25)
Jorge Leon (45)


Baojia Ke, Laboratory Manager
or other approved signatory

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Customer PO: E8477-06-01
Received: 07/28/09 9:00 AM
EMSL Order: 090906057

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: **E8477-06-01, San Joaquin Co., I-5 Stockton**

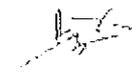
EMSL Proj:
Analysis Date: 8/1/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0215 L/R-2A-SHIMS 090906057-0015		Gray/Black Fibrous Homogeneous		35% Non-fibrous (other)	65% Chrysotile
0175 L/R-1A-SHIMS 090906057-0016		Gray Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
0193 L/R-1A-EJM 090906057-0017		Brown Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
0193 L/R-1B EJM 090906057-0018		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0193 L/R-2A-SHIMS 090906057-0019		Gray Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
0226 L/R/S-1A-SHIMS 090906057-0020		Gray Fibrous Homogeneous		35% Non-fibrous (other)	65% Chrysotile
0174 L/R-1A-EJM 090906057-0021		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)

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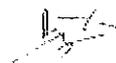
EMSL Proj:
Analysis Date: 8/1/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0174 L/R-1B EJM 090906057-0022		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0174 L/R-2A-EJM 090906057-0023		Brown Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
0174 L/R-2B EJM 090906057-0024		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0174 L/R-3A-SHIMS 090906057-0025		Gray Fibrous Homogeneous		35% Non-fibrous (other)	65% Chrysotile
0192 L/R-1A-EJM 090906057-0026		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0192 L/R-1B EJM 090906057-0027		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0192 L/R-2A-SHIMS 090906057-0028		Gray Fibrous Homogeneous		20% Non-fibrous (other)	80% Chrysotile

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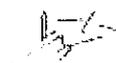
EMSL Proj:
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Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0191 L/R-1A-EJM <i>090906057-0029</i>		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0191 L/R-1B EJM <i>090906057-0030</i>		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0191 L/R-2A-SHIMS <i>090906057-0031</i>		Gray Fibrous Homogeneous		35% Non-fibrous (other)	65% Chrysotile
0190 L/R-1A-EJM <i>090906057-0032</i>		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0190 L/R-1B EJM <i>090906057-0033</i>		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0190 L/R-2A-SHIMS <i>090906057-0034</i>		Gray Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
0189 L/R-1A-EJM <i>090906057-0035</i>		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)

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Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0189 L/R-1B EJM 090906057-0036		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0189 L/R-2A-SHIMS 090906057-0037		Gray Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
0173 L/R-1A-EJM 090906057-0038		Brown Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0173 L/R-1B EJM 090906057-0039		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0173 L/R-2A-SHIMS 090906057-0040		Gray Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
0188 L/R-1A-EJM 090906057-0041		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0188 L/R-1B EJM 090906057-0042		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

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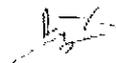
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Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0188 L/R-2A-SHIMS 090906057-0043		Gray Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
0196 L/R-1A-SHIMS 090906057-0044		Gray Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
0198 L/R/S-1A-EJM 090906057-0045		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0198 L/R/S-1B EJM 090906057-0046		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0198 L/R/S-2A-SHIMS 090906057-0047		Gray Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
0195 L/R-1A-EJM 090906057-0048		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0195 L/R-1B EJM 090906057-0049		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

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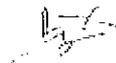
EMSL Proj:
Analysis Date: 8/1/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0195 L/R-2A-SHIMS 090906057-0050		Gray Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
0176-L/R-1A-EJM 090906057-0051		Brown Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
0176-L/R-1B EJM 090906057-0052		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0176-L/R-2A-SHIM 090906057-0053		Gray Fibrous Homogeneous		40% Non-fibrous (other)	60% Chrysotile
0176-L/R-3A- Textured paint 090906057-0054		Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0176-L/R-3B Textured Paint 090906057-0055		Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0232 L/R-1A-EJM 090906057-0056		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

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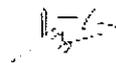
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Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0232 L/R-1B EJM <i>090906057-0057</i>		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0232 L/R-2A-SHIMS <i>090906057-0058</i>		Gray Fibrous Homogeneous		40% Non-fibrous (other)	60% Chrysotile
0231- L/R-1A-EJM <i>090906057-0059</i>		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0231- L/R-1B EJM <i>090906057-0060</i>		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0231- L/R-2A-SHIMS <i>090906057-0061</i>		Gray Fibrous Homogeneous		20% Non-fibrous (other)	80% Chrysotile
0230 L/R-1A-EJM <i>090906057-0062</i>		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0230 L/R-1B EJM <i>090906057-0063</i>		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

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Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0230 L/R-2A-SHIMS 090906057-0064		Gray Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
0229 L/R-1A-EJM 090906057-0065		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0229 L/R-1B EJM 090906057-0066		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0229 L/R-2A-SHIMS 090906057-0067		Gray Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
0225 L/R-1A-EJM 090906057-0068		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0225 L/R-1B EJM 090906057-0069		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0225 L/R-2A-SHIMS 090906057-0070		Gray Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile

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Project No.: 8477-06-01 Client Name: GECON Analyze sample sets until position: 1 of 3 Yes No
 Report Results to: D. WATTS Office Location: LIVERMORE, CA Analytical Fee (per sample): \$ PLM Date(s) inspected: 20-24 July 2009
 Consultant's Ph. #: (925) 371-5900 Consultant's Fax #: (925) 371-5900 Other Comments: STD TAT
 Site Name: I-5 Steckten Building No. _____ Site Address: San Joaquin Co.

Material Code	Sample Number	Material Link No.	Samples Collected										Not Sampled	Material Description		
			A	B	C	D	E	F	G	H	I	J			K	
	0212		X	X												EXPANSION JOINT FILL MATERIAL (ESM) SHIMS EJM SHIMS EJM SHIMS SHIMS EJM SHIMS SHIMS EJM (SPAN) EJM (ADJUSTMENTS) SHIMS
	0194		X	X												
	0215		X	X												
	0175		X	X												
	0193		X	X												
	0226		X	X												
	0174		X	X												
	0174		X	X												
	0174		X	X												
	0174		X	X												

Relinquished by: D. Watts Print Name: Fed Ex Date/Time: 27 July 2009 1431
 Signature: [Signature] Received by: [Signature] Date/Time: 27 July 2009 1431
 Relinquished by: [Signature] Print Name: [Signature] Date/Time: [Signature]

- | | | | | | | |
|---|---|--|---|--|---|--|
| <ul style="list-style-type: none"> Flooring CFT - Ceramic floor tile grout/mastic (M) F - Floor material-Generic (M) FALAS - Floor mastic (M) FT - Vinyl composite tile floor (M) FS - Vinyl composite sheet floor (M) FLC - Floor leveling compound (M) TERR - Terrazzo flooring (M) | <ul style="list-style-type: none"> Wall/Ceiling/Durbar ACOLU - Textured acoustical (sprayed) (S) BRM - Baseboard mastic (M) CM - Ceiling (unspecified type) (M) CS - Ceiling (unspecified type) (S) CP - Ceiling panel - Lay-in (M) CALAS - Ceiling mastic (M) CT - Ceiling tile - Splined or nailed (M) CTG - Ceiling tile - Glued (M) CWT - Ceramic wall tile grout & mastic (M) DBPM - Debris (unspecified) (M) DEBS - Debris (unspecified) (S) DEBT - Debris (unspecified) (S) DOOR - Door core insulation - Fit door (M) | <ul style="list-style-type: none"> Other friable material (M) OS - Other friable material (S) DNFM - Other non friable material (M) ONFS - Other non friable materials (S) PL - Plaster (wall or ceiling) (S) SIR - Sheetrock (no joint compound) (M) SIRUC - Sheetrock with joint compound (M) STUC - Stucco (S) FP - Structural fireproofing (S) TRAN - Transite panel (M) TX - Surface insuring on water/celling (S) WM - Wall (unspecified type) (M) WS - Wall (unspecified type) (S) WT - Wall tile - Splined or nailed (M) WTG - Wall tile - Glued on (M) | <ul style="list-style-type: none"> Fluor/TSI FI - Filling insulation (type not specified) (TSI) PICW - Filling - Chilled water system (TSI) PICON - Filling - Condensate (TSI) PICOW - Filling - Domestic cold water (TSI) FIIHW - Filling - Heating hot water (TSI) FISTM - Filling - Steam (TSI) DI - Duct insulation (TSI) DTAPB - IVAC - Duct joint tape/compound (M) DFLEX - IVAC - Flexible duct/fit duct joint (M) DFLUE - Mech. equipment - Fluor insulation (TSI) | <ul style="list-style-type: none"> Mech. equipment-Grout (M) Mech. equipment-Tank insulation (TSI) Pipe insulation (type not specified) (TSI) Pipe insulation-Chilled water system (TSI) Pipe insulation-Condensate (TSI) Pipe insulation-Domestic cold water (TSI) Pipe insulation-Domestic hot water (TSI) Pipe insulation-Heating hot water (TSI) Pipe insulation-Steam (TSI) Pipe-Transite (M) | <ul style="list-style-type: none"> Roofing material (M) DEAG - Asphalt and gravel (M) EPAT - Asphalt roof tile (M) Flashing (M) RFFELT - Felt material (M) RPFELT - Felt material (M) RPFELT - Penetration mastic (M) RIFROL - Rolled sheet type (M) RTIRAN - Transite shingle (M) | <ul style="list-style-type: none"> Miscellaneous material (M) ST - Surfacing material TSI - Thermal System Insulation |
|---|---|--|---|--|---|--|

(25)

Project No.: 8477-06-01 Client Name: D. WATTS Analyze sample sets until positive: Yes No
 Report Results to: D. WATTS Office Location: LIVERMORE, CA Date(s) Inspected: 20-24 July 2009
 Consultants Ph. #: (925) 371-5900 Consultants Fax #: (925) 371-5900 Other Comments: 2D TAI
 Site Name: I-5 Stockton Building No. _____ Site Address: San Joaquin Co.

Material Code	Sample Number	Material Link No.	Samples Collected											Not Sampled	Material Description	
			A	B	C	D	E	F	G	H	I	J	K			
	0192	1	X	X												EJM
	0191	2	X	X												SHIMS
	0190	1	X	X												EJM
	0189	2	X	X												SHIMS
	0173	1	X	X												EJM
	0188	2	X	X												SHIMS
	0196	1	X	X												SHIMS
	0198	2	X	X												EJM
																SHIMS

Relinquished by: D. Watts Date/Time: 27 July 2009 1431 Received by: Fed Ex Date/Time: 27 July 2009 1431
 Signature: [Signature] Signature: [Signature]
 Print Name: D. Watts Print Name: Fed Ex
 Date/Time: 27 July 2009 1431 Date/Time: 27 July 2009 1431

- | | | | | | | | | | |
|--|---|---|--|--|--|---|---|--|---|
| <ul style="list-style-type: none"> Fluorid CFT F FMAS FT FLC TERR | <ul style="list-style-type: none"> Ceramic floor tile grout/mastic (M) Floor material-Genetic (M) Floor mastic (M) Vinyl composite tile floor (M) Vinyl composite stress floor (M) Floor leveling compound (M) Terrazzo flooring (M) | <ul style="list-style-type: none"> Wall/Ceiling/Other ACCU BBM CM CP CAMS CT CWT DEBAM DEBS DEBT DOOR | <ul style="list-style-type: none"> Textured acoustical (spray) (S) Basboard mastic (M) Ceiling (unspecified type) (M) Ceiling (unspecified type) (S) Ceiling panel - Lay-in (M) Ceiling mastic (M) Ceiling tile - Spliced or nailed (M) Ceiling tile - Glued (M) Ceramic wall tile grout & mastic (M) Debris (unspecified) (M) Debris (unspecified) (S) Debris (unspecified) (TSI) Door core insulation - Fire door (M) | <ul style="list-style-type: none"> Other friable material (M) Other friable material (S) Other nonfriable material (M) Other nonfriable material (S) Plaster (wall or ceiling) (S) Shetrock (no joint compound) (M) Shetrock with joint compound (M) Succo (S) Structural fireproofing (S) Surface texturing on wall/ceiling (S) Wall (unspecified type) (M) Wall (unspecified type) (S) Wall tile - Spined or nailed (M) Wall tile - Glued on (M) | <ul style="list-style-type: none"> Fluorid (TSI) FICIW FICON FIDCW FIDIW FIIHW FISTM DI DTAPB DPLEX DPLDB | <ul style="list-style-type: none"> Fining insulation (type not specified) (TSI) Fittings - Chilled water system (TSI) Fittings - Condensate (TSI) Fitting - Domestic cold water (TSI) Fitting - Domestic hot water (TSI) Fitting - Heating hot water (TSI) Fitting - Steam (TSI) Duct insulation (TSI) IIVAC - Duct joint type/compound (M) IIVAC - Flexible duct/flex. Jurt joint (M) Mech. equipment - Flue insulation (TSI) | <ul style="list-style-type: none"> Mech. equipment-Gasket (M) Mech. equipment-Tank insulation (TSI) Pipe insulation (type not specified) (TSI) Pipe insulation-Chilled water system (TSI) Pipe insulation-Condensate (TSI) Pipe insulation-Domestic cold water (TSI) Pipe insulation-Domestic hot water (TSI) Pipe insulation-Heating hot water (TSI) Pipe insulation-Steam (TSI) Pipe-Transite (M) | <ul style="list-style-type: none"> Mech. equipment-Tank insulation (TSI) | <ul style="list-style-type: none"> Miscellaneous material (M) Surfacing material (TSI) Thermal System insulation |
|--|---|---|--|--|--|---|---|--|---|

22

July 31, 2009



Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106578

RE: I- 5 Stockton, E8477-06-01

Attention: Dave Watts

Enclosed are the results for sample(s) received on July 28, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,


Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: I- 5 Stockton, E8477-06-01
Lab Order: 106578

CASE NARRATIVE

Analytical Comments for Method 6010

Dilution was necessary for samples 106578-001A and 106578-002A, due to sample matrix.

RPD for Duplicate (DUP) is outside criteria for sample 106599-016ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 31-Jul-09

CLIENT: Geocon Consultants, Inc.
Project: I- 5 Stockton, E8477-06-01

Lab Order: 106578

Lab ID: 106578-001 **Collection Date:** 7/24/2009 10:11:00 AM
Client Sample ID: 0176 L/R-P1A **Matrix:** PAINT CHIPS

Analyses **Result** **PQL** **Qual** **Units** **DF** **Date Analyzed**

ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_090730E QC Batch: 56968 PrepDate: 7/30/2009 Analyst: CL
Lead 36000 690 mg/Kg 20 7/30/2009 05:26 PM

Lab ID: 106578-002 **Collection Date:** 7/24/2009 10:36:00 AM
Client Sample ID: 0176 L/R-P1B **Matrix:** PAINT CHIPS

Analyses **Result** **PQL** **Qual** **Units** **DF** **Date Analyzed**

ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_090730E QC Batch: 56968 PrepDate: 7/30/2009 Analyst: CL
Lead 120000 160 mg/Kg 20 7/30/2009 05:37 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 31-Jul-09

CLIENT: Gecon Consultants, Inc.

Work Order: 106578

Project: I-5 Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MB-56968	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 7/30/2009	RunNo: 111299						
Client ID: PBS	Batch ID: 56968	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 7/30/2009	SeqNo: 1753914						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.0									

Sample ID: LCS-56968	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 7/30/2009	RunNo: 111299						
Client ID: LCSS	Batch ID: 56968	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 7/30/2009	SeqNo: 1753915						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	52.768	1.0	50.00	0	106	80	120				

Sample ID: 106599-016ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 7/30/2009	RunNo: 111299						
Client ID: ZZZZZ	Batch ID: 56968	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 7/30/2009	SeqNo: 1753918						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.034	1.0						4.025	66.5	20	R

Sample ID: 106599-016AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 7/30/2009	RunNo: 111299						
Client ID: ZZZZZ	Batch ID: 56968	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 7/30/2009	SeqNo: 1753919						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	113.559	1.0	125.0	4.025	87.6	33	120				

Sample ID: 106599-016AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 7/30/2009	RunNo: 111299						
Client ID: ZZZZZ	Batch ID: 56968	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 7/30/2009	SeqNo: 1753920						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	109.964	1.0	125.0	4.025	84.8	33	120	113.6	3.22	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- DO Surrogate Diluted Out
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



Advanced Technology Laboratories
 3275 Walnut Avenue, Signal Hill, CA 90755
 Tel: 562.989.4045 Fax: 562.989.4040

August 07, 2009



Dave Watts
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TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106578

RE: I- 5 Stockton, E8477-06-01

Attention: Dave Watts

Enclosed are the results for sample(s) received on July 28, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,


for Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



Advanced Technology
Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Project: I- 5 Stockton, E8477-06-01
Lab Order: 106578

CASE NARRATIVE

Analytical Comments for Method 7420

Dilution was necessary for sample 106578-004A, due to sample matrix.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 07-Aug-09

CLIENT:	Geocon Consultants, Inc.	Client Sample ID:	Composite
Lab Order:	106578	Collection Date:	
Project:	I- 5 Stockton, E8477-06-01	Matrix:	PAINT CHIPS
Lab ID:	106578-004A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION (TCLP)						
	EPA3010A			EPA 1311/ 7420		
RunID: AA2_090804A	QC Batch: 57055			PrepDate: 8/4/2009		Analyst: IL
Lead	66	2.5		mg/L	10	8/4/2009 12:50 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



Advanced Technology
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 07-Aug-09

CLIENT: Geokon Consultants, Inc.

Work Order: 106578

Project: I-5 Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-57055A	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 8/4/2009	RunNo: 111400
Client ID: PBS	Batch ID: 57055	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 8/4/2009	SeqNo: 1755490
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: MB-57056A TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 8/4/2009	RunNo: 111400
Client ID: PBS	Batch ID: 57055	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 8/4/2009	SeqNo: 1755491
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: LCS-57055	SampType: LCS	TestCode: 7420_TC	Units: mg/L	Prep Date: 8/4/2009	RunNo: 111400
Client ID: LCSS	Batch ID: 57055	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 8/4/2009	SeqNo: 1755492
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	0.953	0.25	1.000	0	95.3
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: 106578-004A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 8/4/2009	RunNo: 111400
Client ID: Composite	Batch ID: 57055	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 8/4/2009	SeqNo: 1755494
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	67.928	2.5			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: MB-57055-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 8/4/2009	RunNo: 111400
Client ID: ZZZZZZ	Batch ID: 57055	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 8/4/2009	SeqNo: 1755495
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	2.392	0.25	2.500	0	95.7
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Lead					66.23	2.53	20
------	--	--	--	--	-------	------	----

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocon Consultants, Inc.
Work Order: 106578
Project: I-5 Stockton, E8477-06-01

TestCode: 7420_TC

Sample ID: MB-57055-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 8/4/2009	RunNo: 111400						
Client ID: ZZZZZZ	Batch ID: 57055	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 8/4/2009	SeqNo: 1755496						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.416	0.25	2.500	0	96.6	70	130	2.392	0.997	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



Diane Galvan

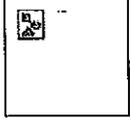
From: David Watts [watts@geoconinc.com]

Sent: Monday, August 03, 2009 8:58 AM

To: Diane Galvan

Subject: RE: Results/EDD - I-5 Stockton (106578)

Thanks, Diane. Please composite these two samples and run a TCLP (routine TAT).



LIMITED SITE INVESTIGATION REPORT



I-5 NORTH STOCKTON WIDENING PROJECT PACKAGE 1 COUNTRY CLUB BLVD TO HAMMER LANE SAN JOAQUIN COUNTY, CALIFORNIA

PREPARED FOR:

RAJAPPAN & MEYER CONSULTING ENGINEERS
1038 LEIGH AVENUE, SUITE 100
SAN JOSE, CALIFORNIA

PREPARED BY:

GEOCON CONSULTANTS, INC.
6671 BRISA STREET
LIVERMORE, CALIFORNIA



GEOCON

EA No. 10-0G4701

GEOCON PROJECT No. E8477-06-01

JULY 2010



Project No. E8477-06-01
July 16, 2010

Keith Meyer
Rajappan & Meyer Consulting Engineers
1038 Leigh Avenue, Suite 100
San Jose, California 95126

Subject: I-5 NORTH STOCKTON WIDENING PROJECT
PACKAGE 1 – COUNTRY CLUB BLVD TO NORTH OF HAMMER LANE
NORTH STOCKTON, SAN JOAQUIN COUNTY, CALIFORNIA
LIMITED SITE INVESTIGATION REPORT

Dear Mr. Meyer:

Geocon has performed environmental engineering services at the subject site in general accordance with the scope of work outlined in our workplan dated April 24, 2009. The site investigation was performed along the northbound and southbound shoulders, median, interchanges, and bridge structures within the project limits of Package 1 – Country Club Blvd to north of Hammer Lane, along I-5 in North Stockton, San Joaquin County, California.

The accompanying report summarizes the services performed including limited soil sample collection from borings advanced using hand-auger and direct-push drilling equipment, and laboratory testing.

The contents of this report reflect the views of Geocon Consultants, Inc., who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

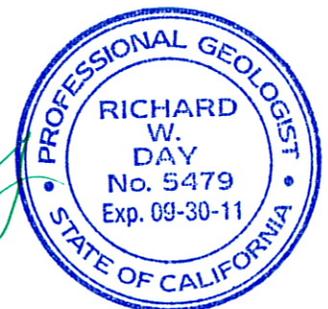
If there are any questions concerning the contents of this report, or if Geocon may be of further service, please contact the undersigned at your convenience.

Sincerely,

GEOCON CONSULTANTS, INC.


Lauren Vigliotti
Senior Staff Geologist


Richard Day, CEG, CHG
Vice President



LJV:RWD

(1) Addressee (pdf)

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APPENDICES

- A. Limited Site Investigation Workplan, dated April 24, 2009
- B. DTSC Variance
- C. Laboratory Reports and Chain-of-custody Documentation
- D. Lead Regression Analysis, and Metals and TPH UCLs

EXECUTIVE SUMMARY

This Limited Site Investigation Report for the Interstate 5 (I-5) North Stockton Widening Project, Package 1 - Charter Way to North of Hammer Lane, was prepared by Geocon Consultants, Inc. at the request of Rajappan and Meyer Consulting Engineers (R&M), and in general accordance with our workplan dated April 24, 2009. A copy of the workplan is included as Appendix A.

The site investigation discussed in this report was conducted under proposed project Package 1, which includes inside widening from Country Club Blvd to Hammer Lane, construction of full auxiliary lanes between interchanges from March Lane to Hammer Lane, replacement of mainline pavement, and construction of soundwalls along with the auxiliary lane improvements. In addition, this phase includes restriping and signing of existing I-5 from Charter Way to Country Club Blvd for peak hour HOV operations. Bridge widening will be required for I-5 overcrossings at twelve structures located within this segment. The site location is depicted on the Vicinity Map, Figure 1.

The results of the site investigation for project Package 2 are provided under separate cover.

The information obtained from this investigation will be used by R&M to coordinate I-5 North Stockton Widening Package 1 project activities and to evaluate soil reuse/disposal options and worker health and safety.

Geocon performed the site investigation in June 2009 and April 2010. The following field activities were performed during soil sampling efforts:

- Advanced 74 soil borings along the I-5 median to a maximum depth of 2.5 feet using direct-push drilling techniques.
- Advanced 70 soil borings along the I-5 shoulders to a maximum depth of 2.5 feet using hand-auger techniques.
- Advanced 16 soil borings at retaining/sound wall locations along the I-5 shoulders to a maximum depth of 4.5 feet using hand-auger techniques.
- Collected 464 soil samples for selected analysis of total lead, CAM 17 metals, petroleum hydrocarbon compounds, and pH.
- Transported samples to California-certified environmental laboratories for analysis under standard chain-of-custody documentation.

Soil samples were not collected from beneath existing mainline pavement.

A summary of the analytical laboratory test results are presented in Tables 2 through 4. Reproductions of the laboratory reports and chain-of-custody documentation are presented as Appendix C.

Conclusions

ADL

NB Shoulder from the Calaveras River to north of March Lane

Soil excavated to a depth of one foot would be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentration is greater than the lead STLC of 5.0 mg/l. Based on the TCLP lead results, excavated soil would not be a RCRA hazardous waste. Based on the reported DI-WET results, soil excavated from the surface to a depth of 1.0 foot may be reused onsite (as Type Y1) in accordance with the DTSC Variance by placing the excavated soil under clean fill or pavement. Underlying soil below a depth of 1.0 foot would be classified as non-hazardous and may be reused onsite.

NB Shoulder from north of March Lane to Swain Road

Soil excavated to a depth of one foot would be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentration is greater than the lead STLC of 5.0 mg/l. Based on the TCLP lead results, excavated soil would not be a RCRA hazardous waste. Based on the reported DI-WET results, soil excavated from the surface to a depth of 1.0 foot may be reused onsite (as Type Y1) in accordance with the DTSC Variance by placing the excavated soil under clean fill or pavement. Underlying soil below a depth of 1.0 foot would be classified as non-hazardous and may be reused onsite.

If excavations are 2 feet or greater in depth and soil is managed as a whole, excavated soil would not be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

NB Shoulder from Benjamin Holt Drive to Hammer Lane

Excavated soil would not be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

SB Shoulder from Hammer Lane to Benjamin Holt Drive

Excavated soil would not be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

SB Shoulder from Benjamin Holt Drive to the Calaveras River

Soil excavated to a depth of one foot would be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentration is greater than the lead STLC of 5.0 mg/l. Based on the TCLP lead results, excavated soil would not be a RCRA hazardous waste. If excavations are 2.5 feet in depth and soil is managed as a whole, excavated soil would be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentrations are greater than the lead STLC of 5.0 mg/l.

Based on the reported DI-WET results, soil excavated from the surface to a depth of 2.5 feet may be reused onsite (as Type Y1) in accordance with the DTSC Variance by placing the excavated soil under clean fill or pavement.

Median from Country Club Blvd to north of Hammer Lane

Based on the reported total and soluble lead concentrations, excavated soil would not be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

CAM 17 Metals

The CAM 17 metals concentrations in site soil, other than lead, were compared to environmental screening levels (ESLs) (Table A, SFRWQCB, May 2008). Arsenic and vanadium were the only metals with reported concentrations greater than their respective ESL values in the soil samples collected at the site.

The 95% UCL value for arsenic in the soil samples collected at the Site is greater than the residential and commercial/industrial land use ESLs, and within the published background range. The 95% UCL value for vanadium in the soil samples collected at the site is greater than the residential land use ESL; however, it is less than the commercial/industrial land use ESL and published background mean.

Offsite reuse or disposal of excavated soil may be restricted based on arsenic and vanadium content.

Petroleum Hydrocarbons

Based on the reported petroleum hydrocarbon concentrations, offsite reuse or disposal of excavated soil may be restricted based on TPHd or TPHmo content.

Worker Protection

Per Caltrans' requirements, the contractor(s) should prepare a project-specific health and safety plan to prevent or minimize worker exposure to impacted soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for the handling of impacted soil.

LIMITED SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Limited Site Investigation Report for the Interstate 5 (I-5) North Stockton Widening Project, Package 1 - Charter Way to North of Hammer Lane, was prepared by Geocon Consultants, Inc. at the request of Rajappan and Meyer Consulting Engineers (R&M), and in general accordance with our workplan dated April 24, 2009. A copy of the workplan is included as Appendix A.

1.1 Project Description and Proposed Improvements

The proposed construction project consists of the northbound (NB) and southbound (SB) shoulders, median, interchanges, and bridge structures along a segment of I-5 in North Stockton, San Joaquin County, California. The approved project extends approximately from Charter Way to Eight Mile Road and consists of approximately ten miles. The proposed construction activities have been separated into two project packages, which consist of roadway segments from Charter Way to Hammer Lane (Package 1), and from north of Hammer Lane to Eight Mile Road (Package 2). The proposed construction activities will be conducted within existing California Department of Transportation (Caltrans) right-of-way (ROW). The site location is depicted on the Vicinity Map, Figure 1.

The site investigation discussed in this report was conducted under proposed project Package 1, which includes inside widening from Country Club Blvd to north of Hammer Lane, construction of full auxiliary lanes between interchanges from March Lane to Hammer Lane, and construction of soundwalls along with the auxiliary lane improvements. In addition, this phase includes restriping and signing of existing I-5 from Charter Way to Country Club Blvd for peak hour HOV operations. Bridge widening will be required for I-5 overcrossings at twelve structures located within this segment.

The results of the site investigation for project Package 2 are provided under separate cover.

1.2 Purpose

The purpose of the site investigation was to evaluate whether impacts due to metals, including aerially deposited lead (ADL), or petroleum hydrocarbon compounds exist in the surface and near surface unpaved soil due to historic leaded fuel emissions from automobile exhausts, and determine if metals or petroleum hydrocarbon compounds have impacted deeper unpaved soil at proposed retaining wall/sound wall locations. The information obtained from this investigation will be used by R&M to coordinate I-5 North Stockton Widening Package 1 project activities and to evaluate soil reuse/disposal options and worker health and safety.

The project also included asbestos-containing materials/lead containing paint (ACM/LCP) surveys of the structures located within the project boundaries to assess the potential presence and quantity of asbestos and potential presence of lead paint prior to planned renovation activities. The information obtained from the surveys is presented under separate cover.

2.0 BACKGROUND

2.1 Hazardous Waste Determination Criteria

Regulatory criteria to classify a waste as California hazardous for handling and disposal purposes are contained in the CCR, Title 22, Division 4.5, Chapter 11, Article 3, §66261.24. Criteria to classify a waste as Resource, Conservation, and Recovery Act (RCRA) hazardous are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), Section 261.

For waste containing metals, the waste is classified as California hazardous when: 1) the total metal content exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the soluble metal content exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test WET. A waste has the potential of exceeding the STLC when the waste's total metal content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal analysis is required. A material is classified as RCRA hazardous, or Federal hazardous, when the soluble metal content exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure (TCLP).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability and corrosivity; however, for the purposes of this investigation, toxicity (i.e., lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or other criteria. Waste that is classified as either California hazardous or RCRA hazardous requires management as a hazardous waste.

2.2 DTSC Variance

The DTSC issued a statewide Variance effective July 1, 2009, regarding the reuse of ADL-impacted soils within Caltrans right-of-way. Under the Variance, soil that is classified as a non-RCRA hazardous waste, based primarily on ADL content, may be suitable for reuse within Caltrans right-of-way. ADL soil that is classified as a RCRA hazardous waste is not eligible for reuse under the Variance and must be disposed of as a RCRA hazardous waste (Caltrans Type Z3).

ADL soil reused under the Variance must always be at least 5 feet above the highest groundwater elevation and, depending on lead concentrations, must be covered with at least one foot of non-hazardous soil or a pavement structure. The ADL soil may not be placed in areas where it might contact groundwater or surface water (such as streams and rivers), and must be buried in locations that are protected from erosion that may result from storm water run-on and run-off.

Review of the statewide Variance indicates the following conditions regarding the reuse and management of ADL-impacted soil as fill material for construction and maintenance operations. If ADL soil meets the Variance criteria but is not intended to be reused within Caltrans right-of-way, then the excavated soil must be disposed of as a California hazardous waste (Caltrans Type Z2). A copy of the Variance is presented as Appendix B.

Caltrans Type Y1

ADL soil exhibiting a total lead concentration less than or equal to 1,411 milligrams per kilogram (mg/kg), a DI-WET (WET using deionized water as extractant) soluble lead concentration less than or equal to 1.5 milligrams per liter (mg/l), and a pH value greater than or equal to 5.5 may be reused within the same Caltrans corridor and must be covered with at least one foot of non-hazardous soil.

Caltrans Type Y2

ADL soil exhibiting a total lead concentration less than or equal to 1,411 mg/kg, a DI-WET lead concentration less than or equal to 1.5 mg/l, and a pH value greater than 5 and less than 5.5 may be reused within the same Caltrans corridor and must be covered and protected from infiltration by a pavement structure.

ADL soil exhibiting a total lead concentration less than or equal to 1,411 mg/kg, a DI-WET lead concentration greater than 1.5 mg/l and less than or equal to 150 mg/l, and a pH value greater than 5 may be reused within the same Caltrans corridor and must be covered and protected from infiltration by a pavement structure.

ADL soil exhibiting a total lead concentration greater than 1,411 mg/kg and less than or equal to 3,397 mg/kg, a DI-WET lead concentration less than or equal to 150 mg/l, and a pH value greater than 5 may be reused within the same Caltrans corridor and must be covered and protected from infiltration by a pavement structure.

Caltrans Type Z2

ADL soil exhibiting a total lead concentration greater than 3,397 mg/kg, a DI-WET lead concentration greater than 150 mg/l, or a pH value less than or equal to 5 is not eligible for reuse under the Variance and must be disposed of as a California hazardous waste.

Caltrans Type Z3

ADL soil exhibiting a TCLP lead concentration greater than or equal to 5 mg/l is not eligible for reuse under the Variance and must be disposed of as a RCRA hazardous waste.

2.3 Environmental Screening Levels

The San Francisco Bay Regional Water Quality Control Board (SFRWQCB) has prepared a technical report entitled *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater, Interim Final* (May 2008), which presents Environmental Screening Levels (ESLs) for soil, groundwater, soil gas, and surface water, to assist in evaluating sites impacted by releases of hazardous chemicals. The ESLs are conservative values for more than 100 commonly detected contaminants, which may be used to compare with environmental data collected at a site. ESLs are strictly risk assessment tools and “not regulatory clean up standards.” The presence of a chemical at concentrations in excess of an ESL does not necessarily indicate that adverse impacts to human health or the environment are occurring; this simply indicates that a potential for adverse risk may exist and that additional evaluation is or “may be” warranted (SFRWQCB, 2008).

The most conservative ESL table was used for comparison: Table A – Shallow Soil (≤ 3 meters below ground surface; bgs) – Groundwater is a Current or Potential Source of Drinking Water. The respective ESLs are listed at the end of Tables 3 and 4 for comparative purposes.

3.0 SCOPE OF SERVICES

We performed the following scope of services:

3.1 Pre-field Activities

- Prepared a *Workplan* dated April 24, 2009, that describes the requested scope of services and quality assurance/quality control (QA/QC) sampling and laboratory procedures. The *Workplan* was approved by R&M.
- Prepared a site-specific health and safety plan to provide guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Retained the services of Advanced Technology Laboratories (ATL) to perform the analyses of the soil samples.
- Obtained a Caltrans Standard Encroachment Permit through R&M.
- Notified Underground Service Alert (USA) at least 48 hours prior to fieldwork.

3.2 Field Activities

Geocon performed the site investigation on June 22 and 24, 2009, and April 28 and 29, 2010. The following field activities were performed during soil sampling efforts:

- Advanced 74 soil borings along the I-5 median to a maximum depth of 2.5 feet using direct-push drilling techniques.
- Advanced 70 soil borings along the I-5 shoulders to a maximum depth of 2.5 feet using hand-auger techniques.
- Advanced 16 soil borings at retaining/sound wall locations along the I-5 shoulders to a maximum depth of 4.5 feet using hand-auger techniques.
- Collected 464 soil samples for selected analysis of total lead, CAM 17 metals, petroleum hydrocarbon compounds, and pH.
- Transported samples to California-certified environmental laboratories for analysis under standard chain-of-custody documentation.

Soil samples were not collected from beneath mainline pavement.

4.0 INVESTIGATIVE METHODS

4.1 Sampling Procedures

Soil samples were collected from 160 boring locations, which are shown on the Site Plan, Figure 2. The boring locations were surveyed using Differential Global Positioning System (DGPS) equipment, and coordinates are presented on Table 1.

The soil samples were collected from borings identified as follows: median borings MB1 to MB31 and MB71 to MB114, shoulder borings SB1 to SB23 and SB44 to SB91, and retaining/sound wall borings WB1 through WB21. Soil samples were collected from the median and shoulder borings at depth intervals of 0 to 0.5 foot, 1.0 to 1.5 feet, and 2.0 to 2.5 feet. Soil samples were collected from the retaining/sound wall borings at depth intervals of 0 to 0.5 foot and 4.0 to 4.5 feet.

Soil samples collected from the median borings were collected into clean acetate liners directly from the direct-push drilling equipment. The liners were cut to obtain the desired sampling interval and the ends were secured with Teflon tape and plastic end-caps. The samples collected using a hand-auger were transferred into re-sealable plastic bags for total lead analysis, and into new stainless steel tubes for CAM 17 metals and petroleum hydrocarbon compound analyses. The tubes were sealed with Teflon tape and plastic end-caps. Sample containers were labeled and transported to ATL using standard chain-of-custody (COC) documentation. Soil borings were backfilled to surface with soil cuttings. Groundwater was not encountered during the field activities.

Geocon provided QA/QC procedures during the field activities. These procedures included washing the sampling equipment with a Liqui-Nox® solution followed by a double rinse with deionized water. Decontamination water was disposed to the ground surface within Caltrans right-of-way in a manner not to create runoff, away from drain inlets or potential water bodies.

4.2 Laboratory Analyses

Laboratory analyses were performed under a standard seven-day turn-around-time. Reproductions of the laboratory reports and COC documentation are presented as Appendix C.

The soil samples were analyzed as follows:

- 448 samples for total lead using Environmental Protection Agency (EPA) Method 6010 ICAP.
- 16 samples for CAM 17 metals according to Title 22 CCR, EPA Test Methods 6010 ICAP and 7471A.
- 88 samples with total lead concentrations greater than 50 mg/kg (i.e. ten times the STLC of 5.0 mg/l) were further analyzed for WET lead.
- 51 samples with WET lead concentrations greater than 5.0 mg/l were further analyzed for DI-WET lead
- 32 samples with total and WET lead concentrations exceeding 100 mg/kg and 5 mg/l, respectively, were analyzed for TCLP lead using EPA Method 1311/7420.
- 16 samples for TPH as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tert-butyl ether (MTBE) using EPA Test Method 8021B.
- 16 samples for TPH as diesel (TPHd) and as motor oil (TPHmo) using EPA Test Method 8015M.
- 53 soil samples for pH using EPA Method 9045.

4.3 Laboratory QA/QC

QA/QC procedures were performed for each method of analysis with specificity for each analyte listed in the test method's QA/QC. The laboratory QA/QC procedures included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix; whichever was more frequent, with spike made at ten times the detection limit or at the analyte level.

Prior to submitting the samples to the laboratory, the COC documentation was reviewed for accuracy and completeness (Appendix C).

5.0 INVESTIGATIVE RESULTS

5.1 Subsurface Conditions

Observations during field activities indicated that surface soil at the project location generally consist of gray and brown, gravelly sand and silt.

5.2 Laboratory Analytical Results

A summary of the analytical laboratory test results are presented in Tables 2 through 4. Reproductions of the laboratory reports and chain-of-custody documentation are presented as Appendix C.

5.2.1 Median and Shoulder Borings

- Total lead was reported at concentrations ranging from less than (<) the laboratory reporting limit of 5.0 mg/kg to 460 mg/kg, with 79 samples equal to or exceeding 50 mg/kg (i.e., exceeding ten times the STLC value of 5 mg/l).
- WET lead was reported at concentrations ranging from <0.25 to 38 mg/l.
- DI-WET lead was reported in the 48 samples analyzed at concentrations ranging from <0.25 to 3.0 mg/l
- TCLP lead was reported in the 29 samples analyzed at concentrations ranging from <0.25 to 0.56 mg/l.

5.2.2 Retaining/Sound Wall Borings

- The following metals were not detected above their respective laboratory reporting limits in the samples: antimony, beryllium, selenium, silver, and thallium.
- Total lead was reported in the samples at concentrations ranging from 3.9 to 270 mg/kg.
- WET lead was reported in the nine samples analyzed at concentrations ranging from 0.69 to 23 mg/l.
- DI-WET lead was reported in the three samples analyzed at concentrations ranging from <0.25 to 0.45 mg/l.
- TCLP lead was reported in the three samples analyzed at concentrations ranging from <0.25 to 0.75 mg/l.
- Remaining CAM 17 metals were reported in the samples at concentrations less than ten times their respective STLCs.
- TPHg, BTEX, or MTBE were not detected above the laboratory reporting limit of 1.0 mg/kg in the samples analyzed, which were those collected from the 4 to 4.5-foot depth interval.
- TPHd was reported at concentrations ranging from 4.3 to 200 mg/.
- TPHmo was reported at concentrations ranging from 16 to 1,200 mg/kg.

5.3 Laboratory Quality Assurance/Quality Control

We reviewed the QA/QC results provided with the laboratory analytical reports. The data indicate non-detect results for the method blanks.

The relative percent differences (RPDs) of the duplicate samples for several of the analyses were outside criteria. The RPDs for several of the matrix spike duplicate samples for the analyses were outside criteria. The Case Narratives in the laboratory reports state that each analytical batch was validated by the laboratory control sample (LCS). The data showed acceptable recoveries and RPDs for the remainder of the duplicates and matrix spikes. Dilution was necessary for several analyses due to sample matrix.

Based on this limited data review, no additional qualifications of the soil data are necessary, and the data are of sufficient quality for the purposes of this report.

5.4 Statistical Evaluation for Lead Detected in Soil Samples

The lead data for the Site were treated as five sample populations for statistical evaluation, which consisted of the following:

- A1) NB shoulder from the Calaveras River to north of March Lane: borings SB82-SB85, WB1, and WB2
- A2) NB shoulder from the north of March Lane to Swain Road: borings SB1-SB14 and WB5-WB7
- B) NB shoulder from Benjamin Holt Drive to Hammer Lane: borings SB15-SB23, SB86-SB91, WB8, and WB9
- C) SB shoulder from Hammer Lane to Benjamin Holt Drive: borings SB44-SB53, SB72-SB77, and WB15-WB17
- D) SB shoulder from Benjamin Holt Drive to the Calaveras River: borings SB54-SB71, SB78-SB81, WB3, WB4, and WB18-WB21
- E) Median from Country Club Blvd to north of Hammer Lane – borings MB1 to MB31 and MB71 to MB114

Statistical methods were applied to the total lead data to evaluate: 1) the upper confidence limits (UCLs) of the arithmetic means of the total lead concentrations for each sampling depth; and 2) if an acceptable correlation between total and soluble lead concentrations exists that would allow the prediction of soluble lead concentrations based on calculated UCLs.

5.4.1 Calculating the UCLs for the Arithmetic Mean

The upper one-sided 90% and 95% UCLs of the arithmetic mean are defined as the values that, when calculated repeatedly for randomly drawn subsets of site data, equal or exceed the true mean 90% and 95% of the time, respectively. Statistical confidence limits are the classical tool for addressing uncertainties of a distribution mean. The UCLs of the arithmetic mean concentration are used as the mean concentrations because it is not possible to know the true mean due to the essentially infinite number of soil samples that could be collected from a site. The UCLs therefore account for uncertainties due to limited sampling data. As data become less limited at a site, uncertainties decrease, and the UCLs move closer to the true mean.

Non-parametric bootstrap techniques were used to calculate the UCLs. For those samples in which total lead was not detected at concentrations exceeding the laboratory reporting limit, a value equal to one-half of the detection limit was used in the UCL calculation. The bootstrap test results are included in Appendix D. The following tables present the calculated UCLs and statistics for each data set.

NB Shoulder from the Calaveras River to north of March Lane (SB82-SB85, WB1, and WB2)

SAMPLE INTERVAL (feet)	TOTAL LEAD 90% UCL (mg/kg)	TOTAL LEAD 95% UCL (mg/kg)	TOTAL LEAD MEAN (mg/kg)	TOTAL LEAD MINIMUM (mg/kg)	TOTAL LEAD MAXIMUM (mg/kg)
0.0 to 0.5	233.5	251.8	159.8	21	460
1.0 to 1.5	NC	NC	6.6	2.5	10
2.0 to 2.5	NC	NC	4.95	2.5	8.0

NB Shoulder from north of March Lane to Swain Road (SB1-SB14 and WB5-WB7)

SAMPLE INTERVAL (feet)	TOTAL LEAD 90% UCL (mg/kg)	TOTAL LEAD 95% UCL (mg/kg)	TOTAL LEAD MEAN (mg/kg)	TOTAL LEAD MINIMUM (mg/kg)	TOTAL LEAD MAXIMUM (mg/kg)
0.0 to 0.5	108.1	111.4	92.0	8.3	170
1.0 to 1.5	13.9	14.7	11.2	2.5	25
2.0 to 2.5	9.6	10.5	6.1	2.5	43

**NB Shoulder from Benjamin Holt Drive to Hammer Lane
(SB15-SB23, SB86-SB91, WB8 and WB9)**

SAMPLE INTERVAL (feet)	TOTAL LEAD 90% UCL (mg/kg)	TOTAL LEAD 95% UCL (mg/kg)	TOTAL LEAD MEAN (mg/kg)	TOTAL LEAD MINIMUM (mg/kg)	TOTAL LEAD MAXIMUM (mg/kg)
0.0 to 0.5	45.7	48.1	35	2.5	97
1.0 to 1.5	41.3	46.7	21.8	2.5	240
2.0 to 2.5	14.5	16.1	9.1	2.5	69

**SB Shoulder from Hammer Lane to Benjamin Holt Drive
(SB44-SB53, SB72-SB77, and WB15-WB17)**

SAMPLE INTERVAL (feet)	TOTAL LEAD 90% UCL (mg/kg)	TOTAL LEAD 95% UCL (mg/kg)	TOTAL LEAD MEAN (mg/kg)	TOTAL LEAD MINIMUM (mg/kg)	TOTAL LEAD MAXIMUM (mg/kg)
0.0 to 0.5	56.1	60.5	40.3	2.5	170
1.0 to 1.5	11.2	12.2	8.0	2.5	41
2.0 to 2.5	6.6	7.1	5.1	2.5	21

**SB Shoulder from Benjamin Holt Drive to March Lane
(SB54-SB71, SB78-SB81, WB3, WB4, and WB18-WB21)**

SAMPLE INTERVAL (feet)	TOTAL LEAD 90% UCL (mg/kg)	TOTAL LEAD 95% UCL (mg/kg)	TOTAL LEAD MEAN (mg/kg)	TOTAL LEAD MINIMUM (mg/kg)	TOTAL LEAD MAXIMUM (mg/kg)
0.0 to 0.5	147.1	153.2	127.2	2.5	310
1.0 to 1.5	32.8	35.8	23.1	2.5	170
2.0 to 2.5	11.6	12.2	9.5	2.5	35

**Median from Country Club Blvd to North of Hammer Lane
(MB1-MB31 and MB71-MB114)**

SAMPLE INTERVAL (feet)	TOTAL LEAD 90% UCL (mg/kg)	TOTAL LEAD 95% UCL (mg/kg)	TOTAL LEAD MEAN (mg/kg)	TOTAL LEAD MINIMUM (mg/kg)	TOTAL LEAD MAXIMUM (mg/kg)
0.0 to 0.5	67.8	70.4	59.4	2.5	270
1.0 to 1.5	11.0	12.1	7.0	2.5	230
2.0 to 2.5	3.3	3.4	3.0	2.5	16

5.4.2 Correlation of Total and WET Lead

Total and corresponding WET lead concentrations are bivariate data with a linear structure. This linear structure should allow for the prediction of WET lead concentrations based on the UCLs calculated above in Section 5.4.1.

To estimate the degree of interrelation between total and corresponding WET lead values (x and y , respectively), the *correlation coefficient* [r] is used. The correlation coefficient is a ratio that ranges from +1 to -1. A *correlation coefficient* of +1 indicates a perfect direct relationship between two variables; a *correlation coefficient* of -1 indicates that one variable changes inversely with relation to the other. Between the two extremes is a spectrum of less-than-perfect relationships, including zero, which indicates the lack of any sort of linear relationship at all. The *correlation coefficient* was calculated for the 88 (x , y) data points (i.e., soil samples analyzed for both total lead [x] and WET lead [y]). The resulting *coefficient of determination* (r^2) equaled 0.6523, which yields a corresponding *correlation coefficient* (r) of 0.8077. To achieve an acceptable correlation, the six data points with the highest squared residual WET lead values were eliminated from the regression analysis.

For the *correlation coefficient* that indicates a linear relationship between total and WET lead concentrations, it is possible to compute the line of dependence or a best-fit line between the two variables. A least squares method was used to find the equation of a best-fit line (regression line) by forcing the y-intercept equal to zero since that is a known point. The equation of the regression line was determined to be $y = 0.0699(x)$, where x represents total lead concentrations and y represents predicted WET lead concentrations.

This equation was used to estimate the expected WET lead concentrations for the UCLs calculated in for samples collected from the Site (see Section 5.4.1). Regression analysis results and a scatter plot depicting the (x , y) data points along with the regression line are included in Appendix D. The predicted WET lead concentrations are summarized in Tables 5a through 5e.

6.0 CONCLUSIONS

Waste classifications are evaluated based on the 90% UCL of the lead content for the relevant excavation depths; this has historically been considered sufficient to satisfy a good faith effort by the EPA as discussed in SW-846. Risk assessment characterization is based on the 95% UCL of the lead content in the waste for the relevant depths; this is in accordance with the Risk Assessment Guidance for Superfund (RAGS) Volume 1 Documentation for Exposure Assessment. Per Caltrans, the 90% UCLs are to be used to evaluate onsite reuse and the 95% UCLs are to be used to evaluate offsite disposal.

6.1 ADL

6.1.1 NB Shoulder from the Calaveras River to north of March Lane

The following table summarizes the predicted waste classification for excavated soil based on the calculated weighted averages of the total lead UCLs for data collected from this portion of the Site. Weighted averages are calculated by using the total lead UCL concentration for each 0.5-foot depth interval as the value for the underlying 0.5-foot depth interval (unless a sample was collected from the underlying depth interval). The total and WET lead calculations are summarized in Table 5a.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	Waste Classification
0 to 1.0 ft	234	16.3	252	Hazardous
<i>Underlying soil (1.0 to 2.5 ft)</i>	9.3	0.7	9.3	<i>Non-Hazardous</i>
0 to 2.0 ft	122	8.5	131	Hazardous
<i>Underlying soil (2.0 to 2.5 ft)</i>	8.0	0.6	8.0	<i>Non-Hazardous</i>
0 to 2.5 ft	99	6.9	1.7	Hazardous

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal

Based on the data presented in the above table, soil excavated to a depth of one foot would be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentration is greater than the lead STLC of 5.0 mg/l. Based on the TCLP lead results, excavated soil would not be a RCRA hazardous waste. Based on the reported DI-WET results, soil excavated from the surface to a depth of 1.0 foot may be reused onsite (as Type Y1) in accordance with the DTSC Variance by placing the excavated soil under clean fill or pavement. Underlying soil below a depth of 1.0 foot would be classified as non-hazardous and may be reused onsite.

6.1.2 NB Shoulder from north of March Lane to Swain Road

The following table summarizes the predicted waste classification for excavated soil based on the calculated weighted averages of the total lead UCLs for data collected from this portion of the Site. Weighted averages are calculated by using the total lead UCL concentration for each 0.5-foot depth interval as the value for the underlying 0.5-foot depth interval (unless a sample was collected from the underlying depth interval). The total and WET lead calculations are summarized in Table 5b.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	Waste Classification
0 to 1.0 ft	108	7.6	111	Hazardous
<i>Underlying soil (1.0 to 2.5 ft)</i>	<i>12</i>	<i>0.9</i>	<i>13</i>	<i>Non-Hazardous</i>
0 to 2.0 ft	61	4.3	63	Non-Hazardous
<i>Underlying soil (2.0 to 2.5 ft)</i>	<i>9.6</i>	<i>0.7</i>	<i>10.5</i>	<i>Non-Hazardous</i>
0 to 2.5 ft	51	3.5	54	Non-Hazardous

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal

Based on the data presented in the above table, soil excavated to a depth of one foot would be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentration is greater than the lead STLC of 5.0 mg/l. Based on the TCLP lead results, excavated soil would not be a RCRA hazardous waste. Based on the reported DI-WET results, soil excavated from the surface to a depth of 1.0 foot may be reused onsite (as Type Y1) in accordance with the DTSC Variance by placing the excavated soil under clean fill or pavement. Underlying soil below a depth of 1.0 foot would be classified as non-hazardous and may be reused onsite.

If excavations are 2 feet or greater in depth and soil is managed as a whole, excavated soil would not be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

6.1.3 NB Shoulder from Benjamin Holt Drive to Hammer Lane

The following table summarizes the predicted waste classification for excavated soil based on the calculated weighted averages of the total lead UCLs for data collected from this portion of the Site. The total and WET lead calculations are summarized in Table 5c.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	Waste Classification
0 to 1.0 ft	46	3.2	48	Non-Hazardous
<i>Underlying soil (1.0 to 2.5 ft)</i>	<i>32</i>	<i>2.3</i>	<i>37</i>	<i>Non-Hazardous</i>
0 to 2.0 ft	43	3.0	47	Non-Hazardous
<i>Underlying soil (2.0 to 2.5 ft)</i>	<i>15</i>	<i>1.0</i>	<i>16</i>	<i>Non-Hazardous</i>
0 to 2.5 ft	38	2.6	43	Non-Hazardous

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal

Based on the data presented in the above table, excavated soil would not be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

6.1.4 SB Shoulder from Hammer Lane to Benjamin Holt Drive

The following table summarizes the predicted waste classification for excavated soil based on the calculated weighted averages of the total lead UCLs for data collected from this portion of the Site. The total and WET lead calculations are summarized in Table 5d.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	Waste Classification
0 to 1.0 ft	56	3.9	60	Non-Hazardous
<i>Underlying soil (1.0 to 2.5 ft)</i>	<i>10</i>	<i>0.7</i>	<i>10</i>	<i>Non-Hazardous</i>
0 to 2.0 ft	34	2.4	36	Non-Hazardous
<i>Underlying Soil (2.0 to 2.5 ft)</i>	<i>6.6</i>	<i>0.5</i>	<i>7.1</i>	<i>Non-Hazardous</i>
0 to 2.5 ft	28	2.0	31	Non-Hazardous

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal

Based on the data presented in the above table, excavated soil would not be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

6.1.5 SB Shoulder from Benjamin Holt Drive to the Calaveras River

The following table summarizes the predicted waste classification for excavated soil based on the calculated weighted averages of the total lead UCLs for data collected from this portion of the Site. The total and WET lead calculations are summarized in Table 5e.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	Waste Classification
0 to 1.0 ft	147	10	153	Hazardous
<i>Underlying soil (1.0 to 2.5 ft)</i>	26	<i>1.8</i>	28	<i>Non-Hazardous</i>
0 to 2.0 ft	90	6.3	95	Hazardous
<i>Underlying Soil (2.0 to 2.5 ft)</i>	<i>12</i>	<i>0.8</i>	<i>12</i>	<i>Non-Hazardous</i>
0 to 2.5 ft	74	5.2	80	Hazardous

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal

Based on the data presented in the above table, soil excavated to a depth of one foot would be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentration is greater than the lead STLC of 5.0 mg/l. Based on the TCLP lead results, excavated soil would not be a RCRA hazardous waste. If excavations are 2.5 feet in depth and soil is managed as a whole, excavated soil would be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentrations are greater than the lead STLC of 5.0 mg/l.

Based on the reported DI-WET results, soil excavated from the surface to a depth of 2.5 feet may be reused onsite (as Type Y1) in accordance with the DTSC Variance by placing the excavated soil under clean fill or pavement.

6.1.6 Median from Country Club Boulevard to North of Hammer Lane

The following table summarizes the predicted waste classification for excavated soil based on the calculated weighted averages of the total lead UCLs for data collected from this portion of the Site. The total and WET lead calculations are summarized in Table 5f.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	Waste Classification
0 to 1.0 ft	68	4.7	70	Non-Hazardous
<i>Underlying soil (1.0 to 2.5 ft)</i>	<i>8.4</i>	<i>0.6</i>	<i>9.2</i>	<i>Non-Hazardous</i>
0 to 2.0 ft	39	2.7	41	Non-Hazardous
<i>Underlying Soil (2.0 to 2.5 ft)</i>	<i>3.3</i>	<i>0.2</i>	<i>3.3</i>	<i>Non-Hazardous</i>
0 to 2.5 ft	32	2.2	34	Non-Hazardous

90% UCL applicable for waste classification and onsite reuse; 95% UCL applicable for risk assessment and offsite disposal

Based on the data presented in the above table, excavated soil would not be classified as a California hazardous waste since the 90% UCL-predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

6.2 CAM 17 Metals

The CAM 17 metals concentrations in site soil, other than lead, were compared to ESLs (Table A, SFRWQCB, May 2008). Arsenic and vanadium were the only metals with reported concentrations greater than their respective ESL values in the soil samples collected at the site. Arsenic was detected in the samples at concentrations between 2.2 and 5.4 mg/kg, exceeding the residential land use ESL of 0.39 mg/kg and the commercial/industrial land use ESL of 1.6 mg/kg for shallow soil (≤ 3 meters; SFRWQCB, Table A). Vanadium was reported in the soil samples at concentrations between 30 mg/kg and 48 mg/kg, exceeding the residential land use ESL of 16 mg/kg for shallow soil.

Upper one-sided 95% UCLs were calculated for the full set of arsenic and vanadium concentrations. The UCLs were compared with the residential and commercial/industrial land use ESLs and with published background levels typically present in California soils as presented in *Background Concentrations of Trace and Major Elements in California Soils* (Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996). The bootstrap results are included in Appendix D. The calculated standard bootstrap UCLs, ESLs and published background concentrations are summarized in the table below:

Metal	95% UCL	RESIDENTIAL ESL	COMMERCIAL/ INDUSTRIAL ESL	PUBLISHED BACKGROUND MEAN ¹	PUBLISHED BACKGROUND RANGE ¹
Arsenic	3.9	0.39	1.6	3.5	0.6 to 11.0
Vanadium	40.4	16	200	112	39 to 288

Concentrations reported in milligrams per kilogram (mg/kg)

¹ Kearney Foundation of Soil Science, March 1996

The 95% UCL value for arsenic in the soil samples collected at the Site is greater than the residential and commercial/industrial land use ESLs, and within the published background range. The SFRWQCB *November 2007 Update to Environmental Screening Levels (ESLs) Technical Document* states that ambient background concentrations of arsenic typically exceed risk-based screening levels. In such instances, it may be more appropriate to compare site data to regionally specific established background levels.

The 95% UCL value for vanadium in the soil samples collected at the site is greater than the residential land use ESL; however, it is less than the commercial/industrial land use ESL and published background mean.

Offsite reuse or disposal of excavated soil may be restricted based on arsenic and vanadium content.

6.3 Total Petroleum Hydrocarbons

TPHg, BTEX, or MTBE were not detected above laboratory reporting limits.

TPHd was reported at concentrations ranging from 4.3 to 200 mg/kg, with 7 of the 16 samples analyzed exceeding the residential and commercial/industrial land use ESLs of 83 mg/kg. The calculated 95% UCL for the TPHd results is 87.0 mg/kg, exceeding the residential and commercial/industrial land use ESLs.

TPHmo was reported at concentrations ranging from 16 to 1,200 mg/kg, exceeding the residential land use ESL of 370 mg/kg; however, reported concentrations are below the commercial/industrial land use ESL of 2,500 mg/kg. The calculated 95% UCL for TPHmo is 510 mg/kg, exceeding the residential land use ESL.

Based on the reported petroleum hydrocarbon concentrations, offsite reuse or disposal of excavated soil may be restricted based on TPHd or TPHmo content.

6.4 Worker Protection

Per Caltrans' requirements, the contractor(s) should prepare a project-specific health and safety plan to prevent or minimize worker exposure to impacted soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for the handling of impacted soil.

7.0 REPORT LIMITATIONS

This report has been prepared exclusively for Rajappan & Meyer Consulting Engineers. The information contained herein is only valid as of the date of the field sampling, and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

TABLE 1
BORING COORDINATES
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
Stockton, California

Boring	Northing	Easting
MB1	2,174,934.872	6,320,782.233
MB2	2,175,401.420	6,320,635.360
MB3	2,176,386.257	6,320,338.149
MB4	2,176,624.613	6,320,268.721
MB5	2,177,277.788	6,320,069.911
MB6	2,178,229.003	6,319,784.813
MB7	2,178,886.572	6,319,588.733
MB8	2,179,409.687	6,319,426.686
MB9	2,180,509.466	6,319,084.819
MB10	2,181,101.423	6,318,909.721
MB11	2,181,905.520	6,318,663.831
MB12	2,182,614.756	6,318,450.224
MB13	2,183,576.471	6,318,159.441
MB14	2,184,690.618	6,317,821.327
MB15	2,185,786.043	6,317,488.423
MB16	2,186,397.022	6,317,302.361
MB17	2,186,971.192	6,317,128.405
MB18	2,187,424.430	6,316,993.858
MB19	2,188,152.623	6,316,764.351
MB20	2,188,675.516	6,316,616.448
MB21	2,189,760.527	6,316,285.761
MB22	2,190,335.067	6,316,105.894
MB23	2,190,722.494	6,315,989.460
MB24	2,191,186.554	6,315,848.466
MB25	2,191,751.203	6,315,670.833
MB26	2,192,383.090	6,315,475.363
MB27	2,193,156.282	6,315,171.167
MB28	2,193,861.842	6,314,913.670
MB29	2,195,717.871	6,314,214.840
MB30	2,196,443.800	6,313,936.151
MB31	2,197,182.136	6,313,634.272
MB71	2,197,222.378	6,313,630.779
MB72	2,196,928.602	6,313,745.634
MB73	2,196,686.284	6,313,836.281
MB74	2,196,241.702	6,314,006.274
MB75	2,195,987.328	6,314,066.847
MB76	2,195,269.900	6,314,368.245
MB77	2,194,731.041	6,314,574.387
MB78	2,194,417.198	6,314,693.947
MB79	2,194,125.204	6,314,801.048
MB80	2,193,712.151	6,314,948.567
MB81	2,193,324.501	6,315,099.763
MB82	2,192,887.088	6,315,262.187
MB83	2,192,539.317	6,315,392.501
MB84	2,191,988.546	6,315,584.047
MB85	2,191,576.802	6,315,713.963
MB86	2,191,053.310	6,315,872.622
MB87	2,190,453.265	6,316,055.291
MB88	2,189,850.311	6,316,236.981
MB89	2,189,036.801	6,316,478.020
MB90	2,188,807.014	6,316,550.377
MB91	2,188,470.234	6,316,662.149
MB92	2,187,910.618	6,316,830.814
MB93	2,187,589.426	6,316,893.510
MB94	2,186,733.446	6,317,156.007
MB95	2,186,033.889	6,317,366.826
MB96	2,185,501.351	6,317,528.798

TABLE 1
BORING COORDINATES
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
Stockton, California

Boring	Northing	Easting
MB97	2,185,088.486	6,317,655.300
MB98	2,184,458.864	6,317,849.273
MB99	2,183,986.206	6,317,990.515
MB100	2,183,337.744	6,318,191.773
MB101	2,182,893.705	6,318,326.997
MB102	2,182,337.773	6,318,487.551
MB103	2,181,598.532	6,318,719.223
MB104	2,180,864.948	6,318,942.238
MB105	2,179,793.316	6,319,271.258
MB106	2,179,186.208	6,319,456.430
MB107	2,178,594.434	6,319,639.998
MB108	2,177,904.907	6,319,839.257
MB109	2,177,607.983	6,319,947.328
MB110	2,176,977.393	6,320,117.181
MB111	2,176,113.512	6,320,385.736
MB112	2,175,862.588	6,320,457.951
MB113	2,175,224.001	6,320,652.152
MB114	2,174,789.987	6,320,783.361
SB1	2,183,228.610	6,318,324.458
SB2	2,183,546.463	6,318,222.232
SB3	2,183,864.316	6,318,135.907
SB4	2,184,179.899	6,318,033.680
SB5	2,184,491.789	6,317,944.930
SB6	2,184,814.183	6,317,840.432
SB7	2,185,118.414	6,317,754.107
SB8	2,185,418.104	6,317,654.152
SB9	2,185,742.768	6,317,567.828
SB10	2,186,067.432	6,317,463.329
SB11	2,186,380.745	6,317,365.646
SB12	2,186,689.516	6,317,270.234
SB13	2,187,009.640	6,317,179.366
SB14	2,187,388.793	6,317,049.879
SB15	2,190,448.722	6,316,127.566
SB16	2,190,757.493	6,316,027.612
SB17	2,191,075.347	6,315,932.200
SB18	2,191,379.578	6,315,850.419
SB19	2,191,681.538	6,315,745.920
SB20	2,192,017.554	6,315,657.323
SB21	2,192,335.407	6,315,550.553
SB22	2,192,637.368	6,315,448.326
SB23	2,192,948.410	6,315,314.296
SB44	2,193,198.152	6,315,064.408
SB45	2,192,896.191	6,315,173.450
SB46	2,192,591.960	6,315,291.579
SB47	2,192,287.729	6,315,398.349
SB48	2,191,963.065	6,315,502.847
SB49	2,191,633.860	6,315,595.987
SB50	2,191,336.440	6,315,698.214
SB51	2,191,025.398	6,315,786.811
SB52	2,190,727.978	6,315,889.037
SB53	2,190,410.125	6,315,975.362
SB54	2,188,217.482	6,316,652.331
SB55	2,187,892.818	6,316,743.199
SB56	2,187,593.128	6,316,836.339
SB57	2,187,279.815	6,316,918.120
SB58	2,186,964.232	6,317,022.618
SB59	2,186,650.920	6,317,115.758

TABLE 1
BORING COORDINATES
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
Stockton, California

Boring	Northing	Easting
SB60	2,186,346.689	6,317,208.898
SB61	2,186,035.647	6,317,297.494
SB63	2,185,379.507	6,317,492.861
SB63	2,185,701.901	6,317,401.993
SB64	2,185,070.736	6,317,597.360
SB65	2,184,759.694	6,317,690.499
SB66	2,184,437.300	6,317,790.455
SB67	2,184,134.492	6,317,876.932
SB68	2,183,807.557	6,317,976.888
SB69	2,183,494.245	6,318,072.299
SB70	2,183,185.473	6,318,160.896
SB71	2,182,867.620	6,318,254.036
SB72	2,194,861.141	6,314,380.271
SB73	2,194,593.032	6,314,500.792
SB74	2,194,291.222	6,314,647.010
SB75	2,193,984.148	6,314,766.108
SB76	2,193,745.867	6,314,856.385
SB77	2,193,386.051	6,314,992.121
SB78	2,182,655.452	6,318,344.604
SB79	2,182,314.023	6,318,451.838
SB80	2,181,909.525	6,318,570.033
SB81	2,181,708.648	6,318,633.628
SB82	2,181,510.391	6,318,859.672
SB83	2,181,830.626	6,318,763.514
SB84	2,182,185.456	6,318,658.521
SB85	2,182,658.574	6,318,510.608
SB86	2,192,782.455	6,315,405.677
SB87	2,193,135.702	6,315,281.590
SB88	2,193,419.756	6,315,172.956
SB89	2,193,737.510	6,315,055.069
SB90	2,194,025.197	6,314,943.154
SB91	2,194,376.247	6,314,817.962
WB1	2,180,536.137	6,319,149.488
WB2	2,180,940.265	6,319,054.076
WB3	2,180,424.888	6,318,997.284
WB4	2,180,915.290	6,318,854.166
WB5	2,183,991.170	6,318,099.406
WB6	2,185,586.995	6,317,615.142
WB7	2,186,894.734	6,317,219.865
WB8	2,190,927.602	6,315,999.449
WB9	2,192,534.880	6,315,487.976
WB15	2,193,084.312	6,315,094.971
WB16	2,191,865.118	6,315,522.052
WB17	2,190,564.342	6,315,919.939
WB18	2,188,940.346	6,316,361.161
WB19	2,188,048.087	6,316,695.101
WB20	2,184,231.830	6,317,840.432
WB21	2,183,337.300	6,318,113.037

Notes: *Coordinates are shown in feet (NAD 83, Zone 3)*

TABLE 2
SUMMARY OF LEAD AND pH RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Sample ID	Sample Interval (ft)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET		pH
				Lead (mg/l)	TCLP Lead (mg/l)	
MB1-0	0-0.5	100	15	1.5	0.56	7.5
MB1-1	1-1.5	<5.0	---	---	---	---
MB1-2	2-2.5	<5.0	---	---	---	---
MB2-0	0-0.5	93	7.1	0.90	---	---
MB2-1	1-1.5	<5.0	---	---	---	---
MB2-2	2-2.5	<5.0	---	---	---	---
MB3-0	0-0.5	<5.0	---	---	---	---
MB3-1	1-1.5	<5.0	---	---	---	---
MB3-2	2-2.5	<5.0	---	---	---	---
MB4-0	0-0.5	14	---	---	---	---
MB4-1	1-1.5	<5.0	---	---	---	---
MB4-2	2-2.5	<5.0	---	---	---	7.0
MB5-0	0-0.5	35	---	---	---	---
MB5-1	1-1.5	<5.0	---	---	---	---
MB5-2	2-2.5	<5.0	---	---	---	---
MB6-0	0-0.5	11	---	---	---	---
MB6-1	1-1.5	<5.0	---	---	---	---
MB6-2	2-2.5	<5.0	---	---	---	---
MB7-0	0-0.5	5.3	---	---	---	---
MB7-1	1-1.5	<5.0	---	---	---	---
MB7-2	2-2.5	<5.0	---	---	---	---
MB8-0	0-0.5	28	---	---	---	---
MB8-1	1-1.5	<5.0	---	---	---	7.1
MB8-2	2-2.5	<5.0	---	---	---	---
MB9-0	0-0.5	7.3	---	---	---	---
MB9-1	1-1.5	<5.0	---	---	---	---
MB9-2	2-2.5	<5.0	---	---	---	---
MB10-0	0-0.5	16	---	---	---	---
MB10-1	1-1.5	5.2	---	---	---	---
MB10-2	2-2.5	<5.0	---	---	---	---
MB11-0	0-0.5	37	---	---	---	---
MB11-1	1-1.5	6.7	---	---	---	---
MB11-2	2-2.5	<5.0	---	---	---	---
MB12-0	0-0.5	31	---	---	---	6.9
MB12-1	1-1.5	<5.0	---	---	---	---
MB12-2	2-2.5	<5.0	---	---	---	---
MB13-0	0-0.5	<5.0	---	---	---	---
MB13-1	1-1.5	<5.0	---	---	---	---
MB13-2	2-2.5	<5.0	---	---	---	---
MB14-0	0-0.5	24	---	---	---	---
MB14-1	1-1.5	<5.0	---	---	---	---
MB14-2	2-2.5	<5.0	---	---	---	---
MB15-0	0-0.5	14	---	---	---	---
MB15-1	1-1.5	<5.0	---	---	---	---
MB15-2	2-2.5	<5.0	---	---	---	7.3

TABLE 2
SUMMARY OF LEAD AND pH RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Sample ID	Sample Interval (ft)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET		pH
				Lead (mg/l)	TCLP Lead (mg/l)	
MB16-0	0-0.5	16	---	---	---	---
MB16-1	1-1.5	<5.0	---	---	---	---
MB16-2	2-2.5	5.2	---	---	---	---
MB17-0	0-0.5	30	---	---	---	---
MB17-1	1-1.5	<5.0	---	---	---	---
MB17-2	2-2.5	<5.0	---	---	---	---
MB18-0	0-0.5	37	---	---	---	---
MB18-1	1-1.5	<5.0	---	---	---	---
MB18-2	2-2.5	<5.0	---	---	---	---
MB19-0	0-0.5	73	4.0	---	---	---
MB19-1	1-1.5	<5.0	---	---	---	8.0
MB19-2	2-2.5	<5.0	---	---	---	---
MB20-0	0-0.5	16	---	---	---	---
MB20-1	1-1.5	5.5	---	---	---	---
MB20-2	2-2.5	<5.0	---	---	---	---
MB21-0	0-0.5	19	---	---	---	---
MB21-1	1-1.5	<5.0	---	---	---	---
MB21-2	2-2.5	<5.0	---	---	---	---
MB22-0	0-0.5	31	---	---	---	---
MB22-1	1-1.5	14	---	---	---	---
MB22-2	2-2.5	<5.0	---	---	---	---
MB23-0	0-0.5	<5.0	---	---	---	7.9
MB23-1	1-1.5	<5.0	---	---	---	---
MB23-2	2-2.5	<5.0	---	---	---	---
MB24-0	0-0.5	99	3.6	---	---	---
MB24-1	1-1.5	<5.0	---	---	---	---
MB24-2	2-2.5	<5.0	---	---	---	---
MB25-0	0-0.5	21	---	---	---	---
MB25-1	1-1.5	8.7	---	---	---	---
MB25-2	2-2.5	<5.0	---	---	---	---
MB26-0	0-0.5	32	---	---	---	---
MB26-1	1-1.5	<5.0	---	---	---	---
MB26-2	2-2.5	<5.0	---	---	---	7.7
MB27-0	0-0.5	46	---	---	---	---
MB27-1	1-1.5	<5.0	---	---	---	---
MB27-2	2-2.5	<5.0	---	---	---	---
MB28-0	0-0.5	35	---	---	---	---
MB28-1	1-1.5	<5.0	---	---	---	---
MB28-2	2-2.5	<5.0	---	---	---	---
MB29-0	0-0.5	22	---	---	---	---
MB29-1	1-1.5	<5.0	---	---	---	---
MB29-2	2-2.5	<5.0	---	---	---	---

TABLE 2
SUMMARY OF LEAD AND pH RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Sample ID	Sample Interval (ft)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET		pH
				Lead (mg/l)	TCLP Lead (mg/l)	
MB30-0	0-0.5	16	---	---	---	---
MB30-1	1-1.5	<5.0	---	---	---	8.0
MB30-2	2-2.5	<5.0	---	---	---	---
MB31-0	0-0.5	<5.0	---	---	---	8.4
MB31-1	1-1.5	<5.0	---	---	---	---
MB31-2	2-2.5	<5.0	---	---	---	---
MB71-0	0-0.5	11	---	---	---	---
MB71-1	1-1.5	<5.0	---	---	---	---
MB71-2	2-2.5	<5.0	---	---	---	---
MB72-0	0-0.5	<5.0	---	---	---	---
MB72-1	1-1.5	<5.0	---	---	---	---
MB72-2	2-2.5	<5.0	---	---	---	---
MB73-0	0-0.5	7.3	---	---	---	---
MB73-1	1-1.5	<5.0	---	---	---	---
MB73-2	2-2.5	<5.0	---	---	---	---
MB74-0	0-0.5	7.9	---	---	---	8.1
MB74-1	1-1.5	<5.0	---	---	---	---
MB74-2	2-2.5	<5.0	---	---	---	---
MB75-0	0-0.5	18	---	---	---	---
MB75-1	1-1.5	5.2	---	---	---	---
MB75-2	2-2.5	<5.0	---	---	---	---
MB76-0	0-0.5	21	---	---	---	---
MB76-1	1-1.5	<5.0	---	---	---	---
MB76-2	2-2.5	<5.0	---	---	---	---
MB77-0	0-0.5	73	0.79	---	---	---
MB77-1	1-1.5	<5.0	---	---	---	7.4
MB77-2	2-2.5	<5.0	---	---	---	---
MB78-0	0-0.5	160	10	0.88	<0.25	---
MB78-1	1-1.5	<5.0	---	---	---	---
MB78-2	2-2.5	<5.0	---	---	---	---
MB79-0	0-0.5	88	6.7	<0.25	---	---
MB79-1	1-1.5	<5.0	---	---	---	---
MB79-2	2-2.5	<5.0	---	---	---	---
MB80-0	0-0.5	140	4.7	---	---	---
MB80-1	1-1.5	<5.0	---	---	---	---
MB80-2	2-2.5	<5.0	---	---	---	7.6
MB81-0	0-0.5	26	---	---	---	---
MB81-1	1-1.5	<5.0	---	---	---	---
MB81-2	2-2.5	<5.0	---	---	---	---
MB82-0	0-0.5	140	13	<0.25	<0.25	---
MB82-1	1-1.5	<5.0	---	---	---	---
MB82-2	2-2.5	<5.0	---	---	---	---
MB83-0	0-0.5	200	16	0.95	<0.25	---
MB83-1	1-1.5	<5.0	---	---	---	---
MB83-2	2-2.5	<5.0	---	---	---	---

TABLE 2
SUMMARY OF LEAD AND pH RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Sample ID	Sample Interval (ft)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET		pH
				Lead (mg/l)	TCLP Lead (mg/l)	
MB84-0	0-0.5	36	---	---	---	7.3
MB84-1	1-1.5	<5.0	---	---	---	---
MB84-2	2-2.5	<5.0	---	---	---	---
MB85-0	0-0.5	32	---	---	---	---
MB85-1	1-1.5	<5.0	---	---	---	---
MB85-2	2-2.5	<5.0	---	---	---	---
MB86-0	0-0.5	120	2.2	---	---	---
MB86-1	1-1.5	<5.0	---	---	---	---
MB86-2	2-2.5	<5.0	---	---	---	---
MB87-0	0-0.5	27	---	---	---	---
MB87-1	1-1.5	5.1	---	---	---	8.2
MB87-2	2-2.5	<5.0	---	---	---	---
MB88-0	0-0.5	68	4.8	---	---	---
MB88-1	1-1.5	<5.0	---	---	---	---
MB88-2	2-2.5	<5.0	---	---	---	---
MB89-0	0-0.5	26	---	---	---	---
MB89-1	1-1.5	5.8	---	---	---	---
MB89-2	2-2.5	<5.0	---	---	---	---
MB90-0	0-0.5	75	7.7	0.51	---	---
MB90-1	1-1.5	<5.0	---	---	---	---
MB90-2	2-2.5	<5.0	---	---	---	7.7
MB91-0	0-0.5	88	5.4	0.63	---	---
MB91-1	1-1.5	<5.0	---	---	---	---
MB91-2	2-2.5	<5.0	---	---	---	---
MB92-0	0-0.5	230	24	3.0	<0.25	---
MB92-1	1-1.5	<5.0	---	---	---	---
MB92-2	2-2.5	<5.0	---	---	---	7.6
MB93-0	0-0.5	270	17	1.9	<0.25	---
MB93-1	1-1.5	6.6	---	---	---	7.2
MB93-2	2-2.5	<5.0	---	---	---	---
MB94-0	0-0.5	100	4.6	---	---	---
MB94-1	1-1.5	<5.0	---	---	---	---
MB94-2	2-2.5	5.4	---	---	---	---
MB95-0	0-0.5	70	2.9	---	---	---
MB95-1	1-1.5	5.3	---	---	---	---
MB95-2	2-2.5	5.0	---	---	---	---
MB96-0	0-0.5	50	2.0	---	---	---
MB96-1	1-1.5	5.5	---	---	---	---
MB96-2	2-2.5	<5.0	---	---	---	---
MB97-0	0-0.5	150	6.3	0.46	<0.25	---
MB97-1	1-1.5	7.9	---	---	---	7.0
MB97-2	2-2.5	<5.0	---	---	---	---

TABLE 2
SUMMARY OF LEAD AND pH RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Sample ID	Sample Interval (ft)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET		pH
				Lead (mg/l)	TCLP Lead (mg/l)	
MB98-0	0-0.5	58	2.1	---	---	---
MB98-1	1-1.5	6.2	---	---	---	---
MB98-2	2-2.5	<5.0	---	---	---	---
MB99-0	0-0.5	33	---	---	---	---
MB99-1	1-1.5	8.0	---	---	---	---
MB99-2	2-2.5	<5.0	---	---	---	---
MB100-0	0-0.5	240	12	0.67	0.35	---
MB100-1	1-1.5	<5.0	---	---	---	---
MB100-2	2-2.5	<5.0	---	---	---	7.1
MB101-0	0-0.5	38	---	---	---	---
MB101-1	1-1.5	5.2	---	---	---	---
MB101-2	2-2.5	7.5	---	---	---	---
MB102-0	0-0.5	110	2.6	---	---	---
MB102-1	1-1.5	5.5	---	---	---	---
MB102-2	2-2.5	<5.0	---	---	---	---
MB103-0	0-0.5	75	2.2	---	---	---
MB103-1	1-1.5	13	---	---	---	---
MB103-2	2-2.5	8.2	---	---	---	---
MB104-0	0-0.5	33	---	---	---	---
MB104-1	1-1.5	<5.0	---	---	---	7.2
MB104-2	2-2.5	<5.0	---	---	---	---
MB105-0	0-0.5	130	3.9	---	---	---
MB105-1	1-1.5	6.3	---	---	---	---
MB105-2	2-2.5	<5.0	---	---	---	---
MB106-0	0-0.5	80	2.9	---	---	---
MB106-1	1-1.5	19	---	---	---	---
MB106-2	2-2.5	16	---	---	---	---
MB107-0	0-0.5	98	5.4	0.28	---	---
MB107-1	1-1.5	5.4	---	---	---	---
MB107-2	2-2.5	<5.0	---	---	---	---
MB108-0	0-0.5	86	3.8	---	---	7.8
MB108-1	1-1.5	<5.0	---	---	---	---
MB108-2	2-2.5	<5.0	---	---	---	---
MB109-0	0-0.5	73	1.6	---	---	---
MB109-1	1-1.5	230	<0.25	---	---	---
MB109-2	2-2.5	<5.0	---	---	---	---
MB110-0	0-0.5	26	---	---	---	---
MB110-1	1-1.5	<5.0	---	---	---	---
MB110-2	2-2.5	<5.0	---	---	---	---
MB111-0	0-0.5	51	<0.25	---	---	---
MB111-1	1-1.5	6.1	---	---	---	---
MB111-2	2-2.5	<5.0	---	---	---	7.7
MB112-0	0-0.5	39	---	---	---	---
MB112-1	1-1.5	<5.0	---	---	---	---
MB112-2	2-2.5	<5.0	---	---	---	---

TABLE 2
SUMMARY OF LEAD AND pH RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
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Sample ID	Sample Interval (ft)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET		pH
				Lead (mg/l)	TCLP Lead (mg/l)	
MB113-0	0-0.5	33	---	---	---	7.4
MB113-1	1-1.5	<5.0	---	---	---	---
MB113-2	2-2.5	<5.0	---	---	---	---
MB114-0	0-0.5	97	0.32	---	---	---
MB114-1	1-1.5	<5.0	---	---	---	---
MB114-2	2-2.5	<5.0	---	---	---	---
SB1-0	0-0.5	17	---	---	---	6.8
SB1-1	1-1.5	11	---	---	---	---
SB1-2	2-2.5	43	---	---	---	---
SB2-0	0-0.5	140	12	0.50	0.54	---
SB2-1	1-1.5	<5.0	---	---	---	---
SB2-2	2-2.5	<5.0	---	---	---	---
SB3-0	0-0.5	170	18	1.2	0.45	---
SB3-1	1-1.5	24	---	---	---	---
SB3-2	2-2.5	<5.0	---	---	---	---
SB4-0	0-0.5	90	7.1	<0.25	---	6.6
SB4-1	1-1.5	5.1	---	---	---	---
SB4-2	2-2.5	<5.0	---	---	---	---
SB5-0	0-0.5	140	15	0.65	0.48	---
SB5-1	1-1.5	25	---	---	---	---
SB5-2	2-2.5	9.3	---	---	---	---
SB6-0	0-0.5	140	16	0.55	<0.25	---
SB6-1	1-1.5	23	---	---	---	---
SB6-2	2-2.5	<5.0	---	---	---	---
SB7-0	0-0.5	150	15	0.69	<0.25	---
SB7-1	1-1.5	5.4	---	---	---	7.5
SB7-2	2-2.5	<5.0	---	---	---	---
SB8-0	0-0.5	31	---	---	---	---
SB8-1	1-1.5	15	---	---	---	---
SB8-2	2-2.5	<5.0	---	---	---	---
SB9-0	0-0.5	18	---	---	---	---
SB9-1	1-1.5	9.2	---	---	---	---
SB9-2	2-2.5	<5.0	---	---	---	---
SB10-0	0-0.5	110	13	0.72	0.42	---
SB10-1	1-1.5	16	---	---	---	---
SB10-2	2-2.5	5.4	---	---	---	7.4
SB11-0	0-0.5	150	12	0.50	<0.25	---
SB11-1	1-1.5	10	---	---	---	---
SB11-2	2-2.5	<5.0	---	---	---	---
SB12-0	0-0.5	99	10	0.51	---	---
SB12-1	1-1.5	5.9	---	---	---	---
SB12-2	2-2.5	<5.0	---	---	---	---

TABLE 2
SUMMARY OF LEAD AND pH RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Sample ID	Sample Interval (ft)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET		pH
				Lead (mg/l)	TCLP Lead (mg/l)	
SB13-0	0-0.5	60	7.1	<0.25	---	---
SB13-1	1-1.5	<5.0	---	---	---	---
SB13-2	2-2.5	<5.0	---	---	---	---
SB14-0	0-0.5	63	5.1	<0.25	---	7.3
SB14-1	1-1.5	<5.0	---	---	---	---
SB14-2	2-2.5	<5.0	---	---	---	---
SB15-0	0-0.5	<5.0	---	---	---	---
SB15-1	1-1.5	<5.0	---	---	---	---
SB15-2	2-2.5	6.7	---	---	---	---
SB16-0	0-0.5	51	2.7	---	---	---
SB16-1	1-1.5	<5.0	---	---	---	---
SB16-2	2-2.5	<5.0	---	---	---	---
SB17-0	0-0.5	97	8.8	0.29	---	---
SB17-1	1-1.5	<5.0	---	---	---	7.9
SB17-2	2-2.5	<5.0	---	---	---	---
SB18-0	0-0.5	10	---	---	---	---
SB18-1	1-1.5	7.4	---	---	---	---
SB18-2	2-2.5	69	6.9	0.59	---	---
SB19-0	0-0.5	47	---	---	---	---
SB19-1	1-1.5	5.3	---	---	---	---
SB19-2	2-2.5	<5.0	---	---	---	---
SB20-0	0-0.5	84	11	<0.25	---	---
SB20-1	1-1.5	<5.0	---	---	---	---
SB20-2	2-2.5	<5.0	---	---	---	7.3
SB21-0	0-0.5	24	---	---	---	---
SB21-1	1-1.5	<5.0	---	---	---	---
SB21-2	2-2.5	<5.0	---	---	---	---
SB22-0	0-0.5	77	5.4	<0.25	---	---
SB22-1	1-1.5	14	---	---	---	---
SB22-2	2-2.5	<5.0	---	---	---	---
SB23-0	0-0.5	97	4.3	---	---	---
SB23-1	1-1.5	15	---	---	---	---
SB23-2	2-2.5	15	---	---	---	---
SB44-0	0-0.5	<5.0	---	---	---	---
SB44-1	1-1.5	<5.0	---	---	---	8.2
SB44-2	2-2.5	<5.0	---	---	---	---
SB45-0	0-0.5	15	---	---	---	---
SB45-1	1-1.5	8.6	---	---	---	---
SB45-2	2-2.5	5.3	---	---	---	---
SB46-0	0-0.5	37	---	---	---	---
SB46-1	1-1.5	9.5	---	---	---	---
SB46-2	2-2.5	<5.0	---	---	---	---
SB47-0	0-0.5	170	12	<0.25	<0.25	---
SB47-1	1-1.5	41	---	---	---	---
SB47-2	2-2.5	5.3	---	---	---	7.6

TABLE 2
SUMMARY OF LEAD AND pH RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
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Sample ID	Sample Interval (ft)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET		pH
				Lead (mg/l)	TCLP Lead (mg/l)	
SB48-0	0-0.5	35	---	---	---	---
SB48-1	1-1.5	16	---	---	---	---
SB48-2	2-2.5	21	---	---	---	---
SB49-0	0-0.5	68	2.9	---	---	---
SB49-1	1-1.5	<5.0	---	---	---	---
SB49-2	2-2.5	<5.0	---	---	---	---
SB50-0	0-0.5	<5.0	---	---	---	---
SB50-1	1-1.5	20	---	---	---	---
SB50-2	2-2.5	12	---	---	---	---
SB51-0	0-0.5	97	5.2	<0.25	---	6.8
SB51-1	1-1.5	<5.0	---	---	---	---
SB51-2	2-2.5	5.3	---	---	---	---
SB52-0	0-0.5	20	---	---	---	---
SB52-1	1-1.5	5.9	---	---	---	---
SB52-2	2-2.5	7.6	---	---	---	---
SB53-0	0-0.5	170	3.8	---	---	---
SB53-1	1-1.5	5.0	---	---	---	---
SB53-2	2-2.5	<5.0	---	---	---	---
SB54-0	0-0.5	<5.0	---	---	---	---
SB54-1	1-1.5	<5.0	---	---	---	7.5
SB54-2	2-2.5	12	---	---	---	---
SB55-0	0-0.5	310	13	0.33	<0.25	---
SB55-1	1-1.5	8.1	---	---	---	---
SB55-2	2-2.5	6.8	---	---	---	---
SB56-0	0-0.5	230	6.9	0.41	<0.25	---
SB56-1	1-1.5	32	---	---	---	---
SB56-2	2-2.5	15	---	---	---	---
SB57-0	0-0.5	160	0.85	---	---	---
SB57-1	1-1.5	39	---	---	---	---
SB57-2	2-2.5	35	---	---	---	7.7
SB58-0	0-0.5	54	4.2	---	---	---
SB58-1	1-1.5	14	---	---	---	---
SB58-2	2-2.5	<5.0	---	---	---	---
SB59-0	0-0.5	110	6.3	<0.25	<0.25	---
SB59-1	1-1.5	15	---	---	---	---
SB59-2	2-2.5	<5.0	---	---	---	---
SB60-0	0-0.5	140	8.2	0.51	<0.25	---
SB60-1	1-1.5	64	5.3	0.31	---	---
SB60-2	2-2.5	12	---	---	---	---
SB61-0	0-0.5	110	0.59	---	---	6.8
SB61-1	1-1.5	5.7	---	---	---	---
SB61-2	2-2.5	<5.0	---	---	---	---

TABLE 2
SUMMARY OF LEAD AND pH RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
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Sample ID	Sample Interval (ft)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET		pH
				Lead (mg/l)	TCLP Lead (mg/l)	
SB62-0	0-0.5	52	<0.25	---	---	---
SB62-1	1-1.5	25	---	---	---	---
SB62-2	2-2.5	16	---	---	---	---
SB63-0	0-0.5	210	1.1	---	---	---
SB63-1	1-1.5	7.0	---	---	---	---
SB63-2	2-2.5	8.9	---	---	---	---
SB64-0	0-0.5	68	4.2	---	---	---
SB64-1	1-1.5	8.4	---	---	---	7.5
SB64-2	2-2.5	17	---	---	---	---
SB65-0	0-0.5	240	22	1.9	<0.25	---
SB65-1	1-1.5	6.5	---	---	---	---
SB65-2	2-2.5	<5.0	---	---	---	---
SB66-0	0-0.5	72	4.6	---	---	---
SB66-1	1-1.5	22	---	---	---	---
SB66-2	2-2.5	9.3	---	---	---	---
SB67-0	0-0.5	250	22	1.9	<0.25	---
SB67-1	1-1.5	11	---	---	---	---
SB67-2	2-2.5	6.3	---	---	---	7.6
SB68-0	0-0.5	120	8.2	0.46	<0.25	---
SB68-1	1-1.5	33	---	---	---	---
SB68-2	2-2.5	21	---	---	---	---
SB69-0	0-0.5	140	28	1.8	<0.25	---
SB69-1	1-1.5	6.3	---	---	---	---
SB69-2	2-2.5	<5.0	---	---	---	---
SB70-0	0-0.5	79	5.8	0.51	---	---
SB70-1	1-1.5	14	---	---	---	---
SB70-2	2-2.5	7.4	---	---	---	---
SB71-0	0-0.5	35	---	---	---	6.9
SB71-1	1-1.5	<5.0	---	---	---	---
SB71-2	2-2.5	<5.0	---	---	---	---
SB72-0	0-0.5	<5.0	---	---	---	7.9
SB72-1	1-1.5	<5.0	---	---	---	---
SB72-2	2-2.5	<5.0	---	---	---	---
SB73-0	0-0.5	<5.0	---	---	---	---
SB73-1	1-1.5	<5.0	---	---	---	---
SB73-2	2-2.5	<5.0	---	---	---	---
SB74-0	0-0.5	<5.0	---	---	---	---
SB74-1	1-1.5	<5.0	---	---	---	---
SB74-2	2-2.5	<5.0	---	---	---	---
SB75-0	0-0.5	<5.0	---	---	---	---
SB75-1	1-1.5	<5.0	---	---	---	---
SB75-2	2-2.5	<5.0	---	---	---	8.4
SB76-0	0-0.5	<5.0	---	---	---	---
SB76-1	1-1.5	<5.0	---	---	---	---
SB76-2	2-2.5	<5.0	---	---	---	---

TABLE 2
SUMMARY OF LEAD AND pH RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Sample ID	Sample Interval (ft)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET		pH
				Lead (mg/l)	TCLP Lead (mg/l)	
SB77-0	0-0.5	<5.0	---	---	---	---
SB77-1	1-1.5	<5.0	---	---	---	---
SB77-2	2-2.5	<5.0	---	---	---	---
SB78-0	0-0.5	99	9.9	<0.25	---	---
SB78-1	1-1.5	6.6	---	---	---	---
SB78-2	2-2.5	<5.0	---	---	---	---
SB79-0	0-0.5	45	---	---	---	---
SB79-1	1-1.5	170	12	0.42	0.31	6.7
SB79-2	2-2.5	9.2	---	---	---	---
SB80-0	0-0.5	72	12	<0.25	---	---
SB80-1	1-1.5	7.6	---	---	---	---
SB80-2	2-2.5	10	---	---	---	---
SB81-0	0-0.5	76	3.8	---	---	---
SB81-1	1-1.5	7.9	---	---	---	---
SB81-2	2-2.5	6.2	---	---	---	---
SB82-0	0-0.5	140	6.1	<0.25	<0.25	---
SB82-1	1-1.5	6.2	---	---	---	---
SB82-2	2-2.5	6.8	---	---	---	---
SB83-0	0-0.5	94	12	<0.25	---	6.3
SB83-1	1-1.5	7.8	---	---	---	---
SB83-2	2-2.5	8.0	---	---	---	---
SB84-0	0-0.5	150	14	<0.25	<0.25	---
SB84-1	1-1.5	10	---	---	---	---
SB84-2	2-2.5	<5.0	---	---	---	---
SB85-0	0-0.5	460	38	<0.25	0.33	---
SB85-1	1-1.5	<5.0	---	---	---	---
SB85-2	2-2.5	<5.0	---	---	---	---
SB86-0	0-0.5	42	---	---	---	---
SB86-1	1-1.5	240	29	<0.25	0.58	---
SB86-2	2-2.5	15	---	---	---	8.1
SB87-0	0-0.5	<5.0	---	---	---	---
SB87-1	1-1.5	<5.0	---	---	---	---
SB87-2	2-2.5	5.5	---	---	---	---
SB88-0	0-0.5	6.9	---	---	---	---
SB88-1	1-1.5	20	---	---	---	---
SB88-2	2-2.5	<5.0	---	---	---	---
SB89-0	0-0.5	<5.0	---	---	---	---
SB89-1	1-1.5	<5.0	---	---	---	---
SB89-2	2-2.5	<5.0	---	---	---	---
SB90-0	0-0.5	<5.0	---	---	---	---
SB90-1	1-1.5	<5.0	---	---	---	8.4
SB90-2	2-2.5	<5.0	---	---	---	---

TABLE 2
SUMMARY OF LEAD AND pH RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Sample ID	Sample Interval (ft)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET		pH
				Lead (mg/l)	TCLP Lead (mg/l)	
SB91-0	0-0.5	6.3	---	---	---	---
SB91-1	1-1.5	5.9	---	---	---	---
SB91-2	2-2.5	<5.0	---	---	---	---
WB1-0	0-0.5	94	2.5	---	---	---
WB2-0	0-0.5	21	---	---	---	---
WB3-0	0-0.5	120	0.84	---	---	---
WB4-0	0-0.5	94	0.69	---	---	---
WB5-0	0-0.5	8.3	---	---	---	---
WB6-0	0-0.5	87	0.76	---	---	---
WB7-0	0-0.5	91	1.1	---	---	---
WB8-0	0-0.5	27	---	---	---	---
WB9-0	0-0.5	16	---	---	---	---
WB15-0	0-0.5	31	---	---	---	---
WB16-0	0-0.5	98	0.97	---	---	---
WB17-0	0-0.5	3.9	---	---	---	---
WB18-0	0-0.5	12	---	---	---	---
WB19-0	0-0.5	230	19	0.45	<0.25	---
WB20-0	0-0.5	270	23	<0.25	0.49	---
WB21-0	0-0.5	160	11	<0.25	0.75	---

Notes:

- WET = Waste Extraction Test
- DI-WET = Waste Extraction Test using de-ionized water
- TCLP = Toxicity Characteristic Leaching Procedure
- mg/kg = milligrams per kilogram
- mg/l = milligrams per liter
- < = Not detected above the laboratory reporting limit
- = Not analyzed

TABLE 3
SUMMARY OF CAM 17 METALS RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Sample ID	Depth Interval (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
WB1-0	0-0.5	<2.0	4.0	210	<1.0	1.1	33	9.5	48	94	2.8	37	<1.0	<1.0	<1.0	36	230
WB2-0	0-0.5	<2.0	3.4	100	<1.0	<1.0	38	9.9	22	21	<1.0	48	<1.0	<1.0	<1.0	39	110
WB3-0	0-0.5	<2.0	5.1	160	<1.0	<1.0	42	10	38	120	1.2	47	<1.0	<1.0	<1.0	43	140
WB4-0	0-0.5	<2.0	5.4	110	<1.0	<1.0	46	12	29	94	<1.0	62	<1.0	<1.0	<1.0	48	87
WB5-0	0-0.5	<2.0	3.1	110	<1.0	<1.0	18	6.3	17	8.3	<1.0	18	<1.0	<1.0	<1.0	45	69
WB6-0	0-0.5	<2.0	3.8	120	<1.0	<1.0	37	9.1	24	87	<1.0	44	<1.0	<1.0	<1.0	37	100
WB7-0	0-0.5	<2.0	3.1	250	<1.0	1.4	27	17	25	91	1.3	33	<1.0	<1.0	<1.0	30	740
WB8-0	0-0.5	<2.0	3.3	79	<1.0	<1.0	39	9.0	16	27	<1.0	46	<1.0	<1.0	<1.0	39	43
WB9-0	0-0.5	<2.0	3.4	82	<1.0	<1.0	43	9.7	18	16	<1.0	48	<1.0	<1.0	<1.0	41	50
WB15-0	0-0.5	<2.0	2.2	88	<1.0	<1.0	21	6.4	15	31	<1.0	27	<1.0	<1.0	<1.0	33	57
WB16-0	0-0.5	<2.0	4.1	110	<1.0	<1.0	37	8.8	24	98	<1.0	44	<1.0	<1.0	<1.0	38	120
WB17-0	0-0.5	<2.0	4.0	65	<1.0	<1.0	39	11	16	3.9	<1.0	53	<1.0	<1.0	<1.0	40	39
WB18-0	0-0.5	<2.0	2.4	99	<1.0	<1.0	20	6.3	16	12	<1.0	22	<1.0	<1.0	<1.0	40	41
WB19-0	0-0.5	<2.0	3.3	91	<1.0	<1.0	31	7.3	22	230	<1.0	38	<1.0	<1.0	<1.0	33	79
WB20-0	0-0.5	<2.0	3.1	120	<1.0	<1.0	32	7.2	29	270	<1.0	36	<1.0	<1.0	<1.0	34	140
WB21-0	0-0.5	<2.0	3.8	130	<1.0	<1.0	40	11.0	26	160	<1.0	50	<1.0	<1.0	<1.0	40	130
ESLs																	
Residential Land Use		6.3	0.39	750	4.0	1.7	750*	40	230	200	40	150	10	20	1.3	16	600
Comm/Ind Land Use		40	1.6	1,500	8.0	7.4	750*	80	230	750	40	150	10	40	16	200	600

Notes:

Results are shown in milligrams per kilogram (mg/kg)

< = Analyte was not detected above the laboratory reporting limit

ESLs = Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, May 2008, Tables A and C.

* = Value is for Chromium III, no standard for total chromium

Mercury

0.11
<0.10
0.12
0.12
<0.10
<0.10
<0.10
<0.10
<0.10
<0.10
<0.10
<0.10
<0.10
<0.10
<0.10
<0.10
<0.10

1.3
10

TABLE 4
SUMMARY OF ORGANICS RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Sample ID	Sample Depth (ft)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	BTEX (µg/kg)	MTBE (µg/kg)
WB1-0	0-0.5	---	140	770	---	---
WB1-4	4-4.5	<1.0	---	---	ND	<5.0
WB2-0	0-0.5	---	80	560	---	---
WB2-4	4-4.5	<1.0	---	---	ND	<5.0
WB3-0	0-0.5	---	30	170	---	---
WB3-4	4-4.5	<1.0	---	---	ND	<5.0
WB4-0	0-0.5	---	9.3	41	---	---
WB4-3	4-4.5	<1.0	---	---	ND	<5.0
WB5-0	0-0.5	---	10	64	---	---
WB5-4	4-4.5	<1.0	---	---	ND	<5.0
WB6-0	0-0.5	---	21	110	---	---
WB6-4	4-4.5	<1.0	---	---	ND	<5.0
WB7-0	0-0.5	---	40	270	---	---
WB7-4	4-4.5	<1.0	---	---	ND	<5.0
WB8-0	0-0.5	---	56	280	---	---
WB8-4	4-4.5	<1.0	---	---	ND	<5.0
WB9-0	0-0.5	---	9.4	44	---	---
WB9-4	4-4.5	<1.0	---	---	ND	<5.0
WB15-0	0-0.5	---	200	1,200	---	---
WB15-4	4-4.5	<1.0	---	---	ND	<5.0
WB16-0	0-0.5	---	150	870	---	---
WB16-4	4-4.5	<1.0	---	---	ND	<5.0
WB17-0	0-0.5	---	4.3	16	---	---
WB17-4	4-4.5	<1.0	---	---	ND	<5.0
WB18-0	0-0.5	---	7.0	33	---	---
WB18-3	3-3.5	<1.0	---	---	ND	<5.0

TABLE 4
SUMMARY OF ORGANICS RESULTS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Sample ID	Sample Depth (ft)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	BTEX (µg/kg)	MTBE (µg/kg)
WB19-0	0-0.5	---	65	390	---	---
WB19-4	4-4.5	<1.0	---	---	ND	<5.0
WB20-0	0-0.5	---	95	540	---	---
WB20-4	4-4.5	<1.0	---	---	ND	<5.0
WB21-0	0-0.5	---	89	560	---	---
WB21-4	4-4.5	<1.0	---	---	ND	<5.0
ESLs						
	Residential Land Use	83	83	370	---	23
	Comm./Indust. Land Use	83	83	2,500	---	23

Notes:

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

TPHmo = Total petroleum hydrocarbons as motor oil

BTEX = Benzene, toluene, ethylbenzene, and xylenes.

MTBE = Methyl tert-butyl ether

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

ND = Not detected above laboratory reporting limit

< = Not detected above the stated laboratory reporting limit

ESLs = Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, May 2008, Table A - Groundwater is a Current or Potential Drinking Water Source.

TABLE 5a
SUMMARY OF LEAD STATISTICAL ANALYSIS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Northbound Shoulder from the Calaveras River to north of March Lane
(Borings SB82-SB85 and WB5-WB7)

TOTAL LEAD UCLs

	Total Lead (mg/kg)		Maximum
	90% UCL	95% UCL	
0 to 0.5 ft.	233.5	251.8	
1.0 to 1.5 ft.			10
2.0 to 2.5 ft.			8.0

EXCAVATION SCENARIOS

Excavation Depth	Weighted Averages		
	Total Lead (mg/kg)	90% UCL WET Lead (mg/l)	95% UCL Total Lead (mg/kg)
0 to 1 ft	234	16.3	252
<i>Underlying Soil (1 to 2.5 ft.)</i>	9.3	0.7	9.3
0 to 2 ft	122	8.5	131
<i>Underlying Soil (2 to 2.5 ft.)</i>	8.0	0.6	8.0
0 to 2.5 ft.	99	6.9	107

Notes:

Weighted average values are based upon calculated UCLs for each depth interval.

UCL = Upper Confidence Limit (90% UCL is applicable for waste classification; 95% UCL applicable for risk assessment)

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations are predicted using slope of regression line,
where y = predicted soluble (WET) lead and x = total lead.

Regression Line Slope: $y = 0.0699 x$

TABLE 5b
SUMMARY OF LEAD STATISTICAL ANALYSIS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Northbound Shoulder from north of March Lane to Swain Road
(Borings SB1-SB14, WB1, and WB2)

TOTAL LEAD UCLs

	Total Lead (mg/kg)	
	90% UCL	95% UCL
0 to 0.5 ft.	108.1	111.4
1.0 to 1.5 ft.	13.9	14.7
2.0 to 2.5 ft.	9.6	10.5

EXCAVATION SCENARIOS

Excavation Depth	Weighted Averages		95% UCL Total Lead (mg/kg)
	90% UCL Total Lead (mg/kg)	WET Lead (mg/l)	
0 to 1 ft	108	7.6	111
<i>Underlying Soil (1 to 2.5 ft.)</i>	12	0.9	13
0 to 2 ft	61	4.3	63
<i>Underlying Soil (2 to 2.5 ft.)</i>	9.6	0.7	10.5
0 to 2.5 ft.	51	3.5	54

Notes:

Weighted average values are based upon calculated UCLs for each depth interval.

UCL = Upper Confidence Limit (90% UCL is applicable for waste classification; 95% UCL applicable for risk assessment)

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations are predicted using slope of regression line,
where y = predicted soluble (WET) lead and x = total lead.

Regression Line Slope: $y = 0.0699 x$

TABLE 5c
SUMMARY OF LEAD STATISTICAL ANALYSIS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Northbound Shoulder from Benjamin Holt Drive to Hammer Lane
(Borings SB15-SB23, SB86-SB91, WB8 and WB9)

TOTAL LEAD UCLs

	Total Lead (mg/kg)	
	90% UCL	95% UCL
0 to 0.5 ft.	45.7	48.1
1.0 to 1.5 ft.	41.3	46.7
2.0 to 2.5 ft.	14.6	16.1

EXCAVATION SCENARIOS

Excavation Depth	Weighted Averages		95% UCL Total Lead (mg/kg)
	90% UCL Total Lead (mg/kg)	WET Lead (mg/l)	
0 to 1 ft	46	3.2	48
<i>Underlying Soil (1 to 2.5 ft.)</i>	32	2.3	37
0 to 2 ft	43	3.0	47
<i>Underlying Soil (2 to 2.5 ft.)</i>	15	1.0	16
0 to 2.5 ft.	38	2.6	43

Notes:

Weighted average values are based upon calculated UCLs for each depth interval.

UCL = Upper Confidence Limit (90% UCL is applicable for waste classification; 95% UCL applicable for risk assessment)

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations are predicted using slope of regression line,
where y = predicted soluble (WET) lead and x = total lead.

Regression Line Slope: $y = 0.0699 x$

TABLE 5d
SUMMARY OF LEAD STATISTICAL ANALYSIS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Southbound Shoulder from Hammer Lane to Benjamin Holt Drive
(Borings SB44-SB53, SB72-SB77, and WB15-WB17)

TOTAL LEAD UCLs

	Total Lead (mg/kg)	
	90% UCL	95% UCL
0 to 0.5 ft.	56.1	60.5
1.0 to 1.5 ft.	11.2	12.2
2.0 to 2.5 ft.	6.6	7.1

EXCAVATION SCENARIOS

Excavation Depth	Weighted Averages		95% UCL Total Lead (mg/kg)
	90% UCL Total Lead (mg/kg)	WET Lead (mg/l)	
0 to 1 ft	56	3.9	60
<i>Underlying Soil (1 to 2.5 ft.)</i>	<i>10</i>	<i>0.7</i>	<i>10</i>
0 to 2 ft	34	2.4	36
<i>Underlying Soil (2 to 2.5 ft.)</i>	<i>6.6</i>	<i>0.5</i>	<i>7.1</i>
0 to 2.5 ft.	28	2.0	31

Notes:

Weighted average values are based upon calculated UCLs for each depth interval.

UCL = Upper Confidence Limit (90% UCL is applicable for waste classification; 95% UCL applicable for risk assessment)

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations are predicted using slope of regression line,
where y = predicted soluble (WET) lead and x = total lead.

Regression Line Slope: $y = 0.0699 x$

TABLE 5e
SUMMARY OF LEAD STATISTICAL ANALYSIS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Southbound Shoulder from Benjamin Holt Drive to the Calaveras River
(Borings SB54-SB71, SB78-SB81, WB3, WB4, and WB18-WB21)

TOTAL LEAD UCLs

	Total Lead (mg/kg)	
	90% UCL	95% UCL
0 to 0.5 ft.	147.1	153.2
1.0 to 1.5 ft.	32.8	35.8
2.0 to 2.5 ft.	11.6	12.2

EXCAVATION SCENARIOS

Excavation Depth	Weighted Averages		95% UCL Total Lead (mg/kg)
	90% UCL Total Lead (mg/kg)	WET Lead (mg/l)	
0 to 1 ft	147	10	153
<i>Underlying Soil (1 to 2.5 ft.)</i>	26	1.8	28
0 to 2 ft	90	6.3	95
<i>Underlying Soil (2 to 2.5 ft.)</i>	12	0.8	12
0 to 2.5 ft.	74	5.2	80

Notes:

Weighted average values are based upon calculated UCLs for each depth interval.

UCL = Upper Confidence Limit (90% UCL is applicable for waste classification; 95% UCL applicable for risk assessment)

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations are predicted using slope of regression line,
where y = predicted soluble (WET) lead and x = total lead.

Regression Line Slope: $y = 0.0699 x$

TABLE 5f
SUMMARY OF LEAD STATISTICAL ANALYSIS
I-5 North Stockton Widening Project
Package 1 - Country Club Blvd to north of Hammer Lane
San Joaquin County, California

Median from Country Club Drive to North of Hammer Lane
(Borings MB1 to MB31 and MB71 to MB114)

TOTAL LEAD UCLs

	Total Lead (mg/kg)	
	90% UCL	95% UCL
0 to 0.5 ft.	67.8	70.4
1.0 to 1.5 ft.	11.0	12.1
2.0 to 2.5 ft.	3.3	3.4

EXCAVATION SCENARIOS

Excavation Depth	Weighted Averages		95% UCL Total Lead (mg/kg)
	90% UCL Total Lead (mg/kg)	WET Lead (mg/l)	
0 to 1 ft	68	4.7	70
<i>Underlying Soil (1 to 2.5 ft.)</i>	8.4	0.6	9.2
0 to 2 ft	39	2.8	41
<i>Underlying Soil (2 to 2.5 ft.)</i>	3.3	0.2	3.3
0 to 2.5 ft.	32	2.2	34

Notes:

Weighted average values are based upon calculated UCLs for each depth interval.

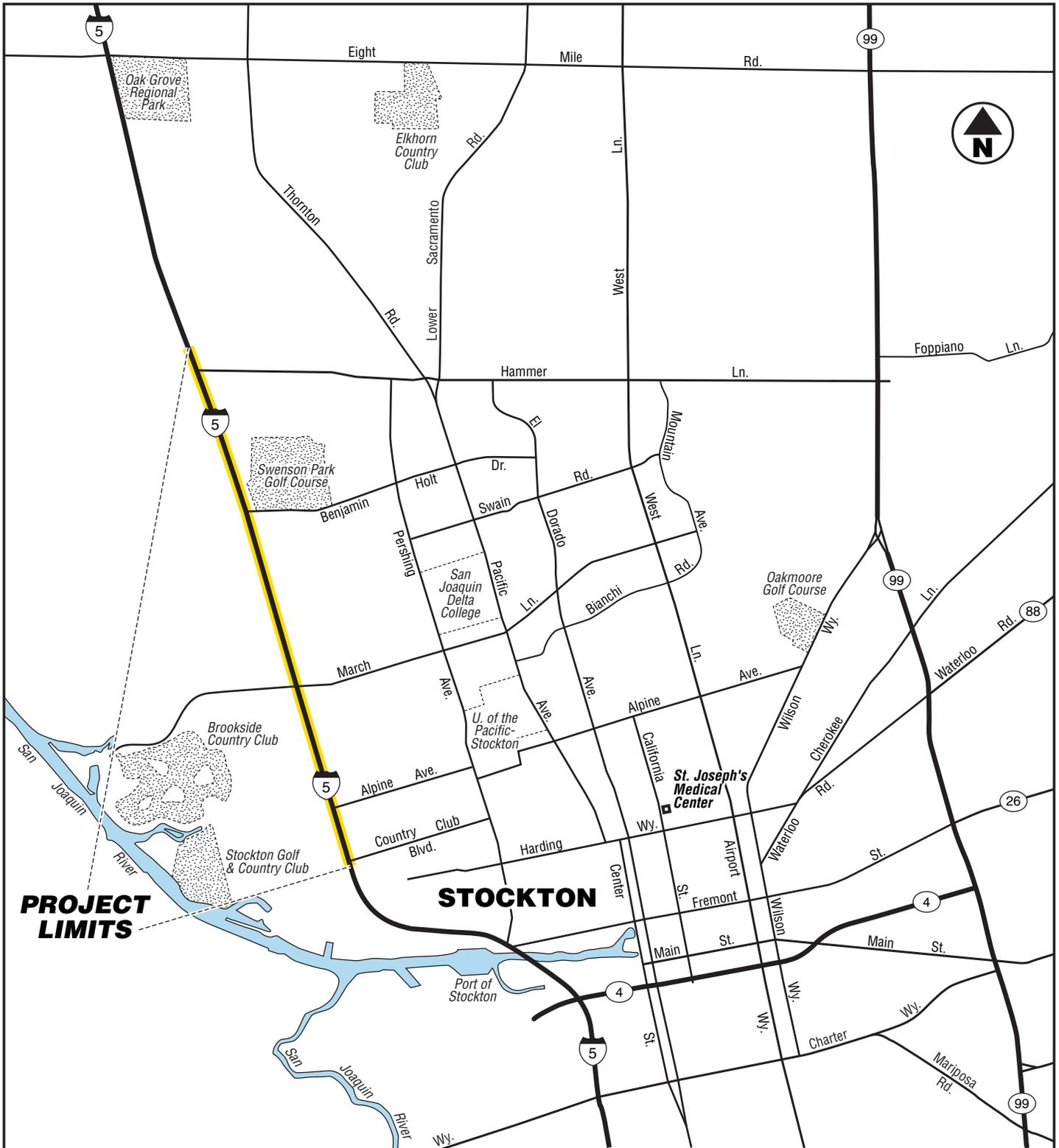
UCL = Upper Confidence Limit (90% UCL is applicable for waste classification; 95% UCL applicable for risk assessment)

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations are predicted using slope of regression line,
where y = predicted soluble (WET) lead and x = total lead.

Regression Line Slope: $y = 0.0699 x$



PROJECT LIMITS

STOCKTON



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 - FAX 916 852-9132

I-5 North Stockton Widening Project – Package 1

Stockton,
California

VICINITY MAP

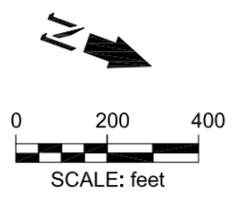
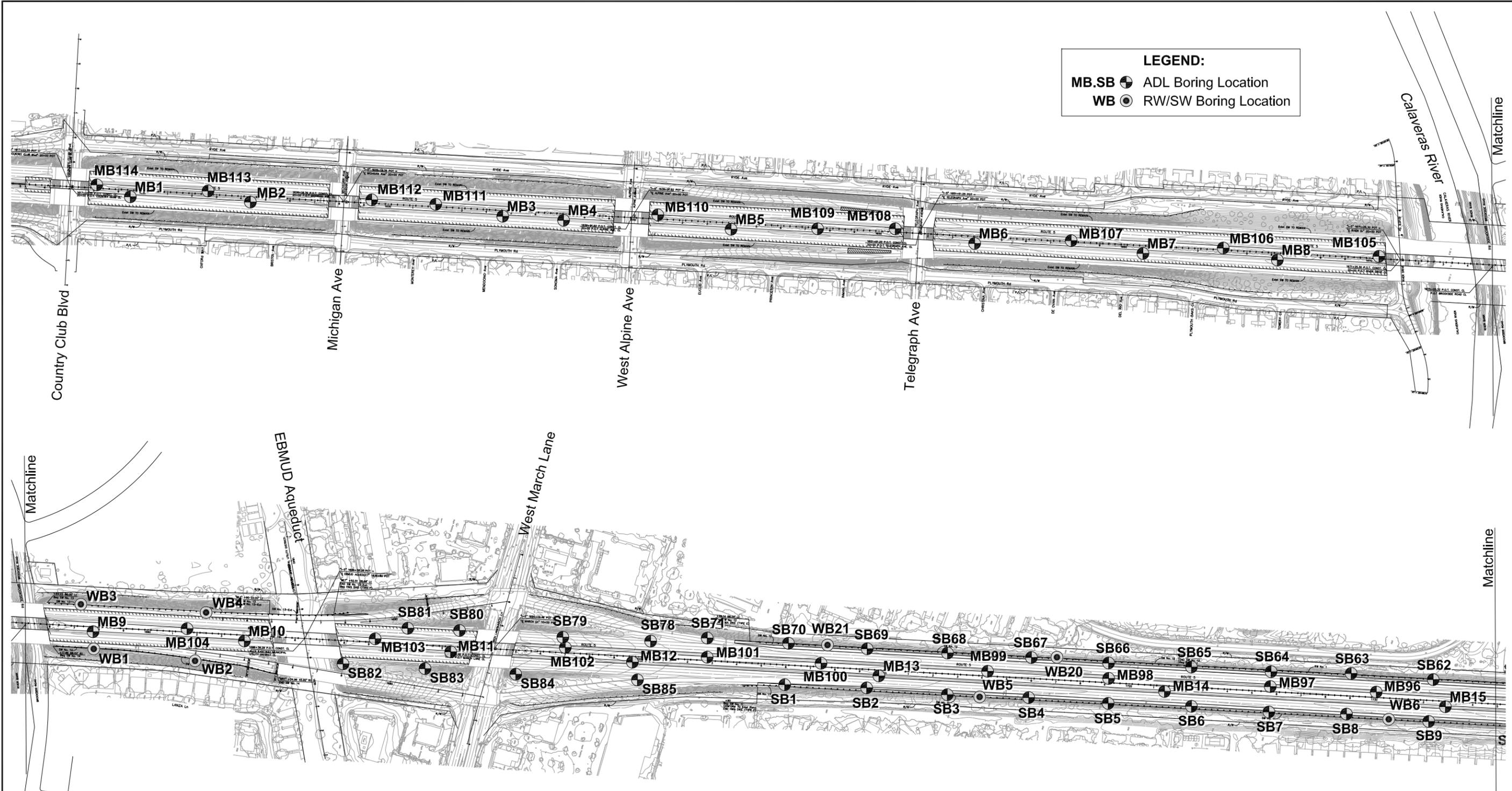
E8477-06-01

March 2010

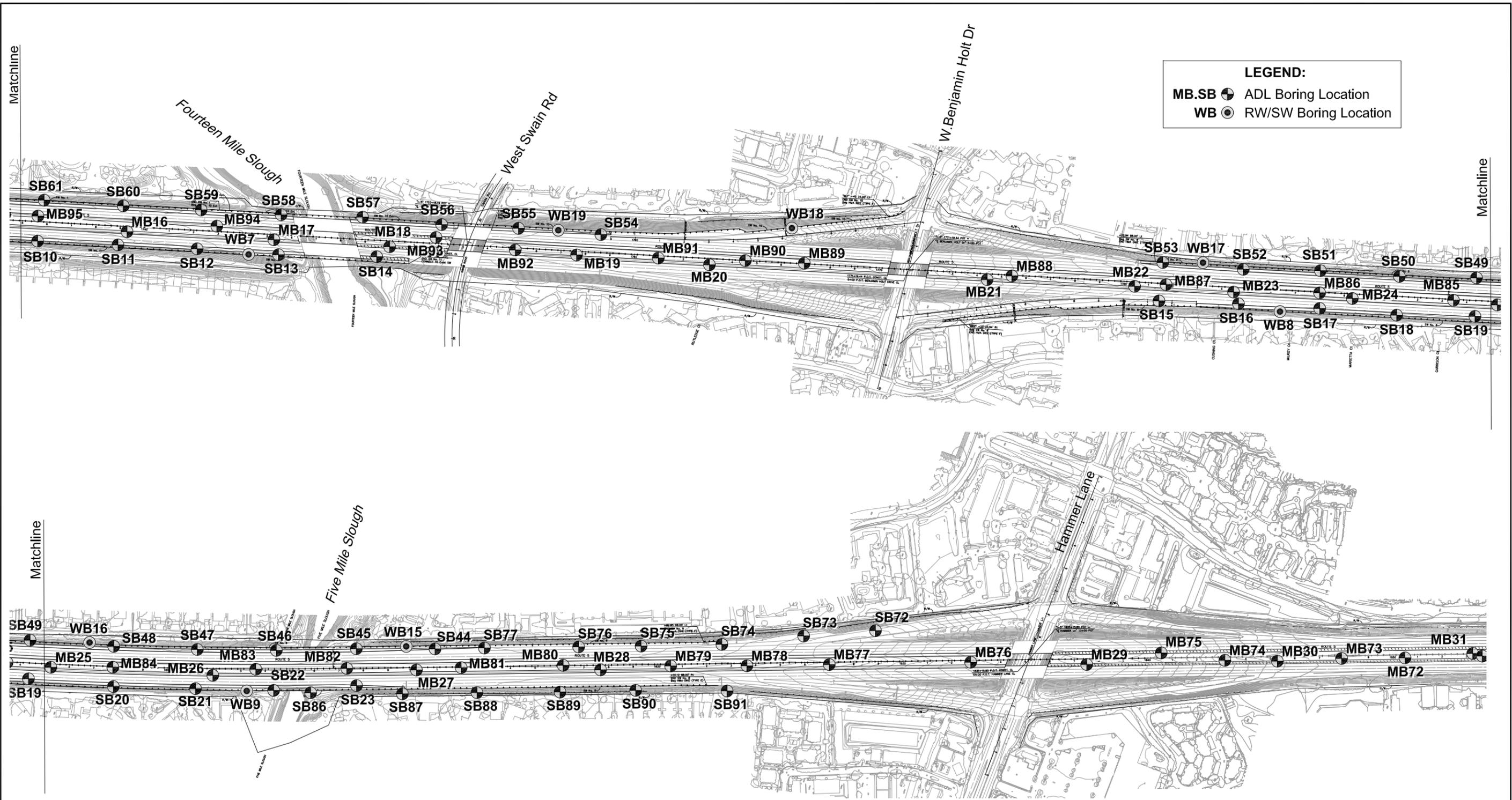
Figure 1



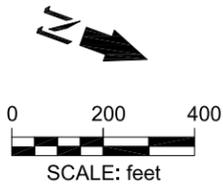
LEGEND:
 MB.SB ● ADL Boring Location
 WB ● RW/SW Boring Location



 6671 BRISA STREET, LIVERMORE, CA 94550; PHONE 925 371-5900 - FAX 925 371-5915		I-5 North Stockton Widening Project - Package 1	
GEOCON Proj. No. E8477-06-01		May 2010	Figure 2a
EA No. 10-0G4701		May 2010	Figure 2a



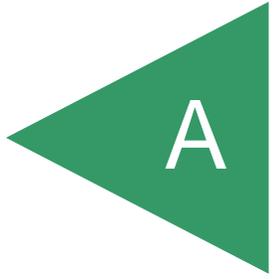
LEGEND:
 MB.SB ● ADL Boring Location
 WB ● RW/SW Boring Location



 6671 BRISA STREET, LIVERMORE, CA 94550; PHONE 925 371-5900 - FAX 925 371-5915	
I-5 North Stockton Widening Project - Package 1	
Stockton, California	SITE PLAN
GEOCON Proj. No. E8477-06-01	
EA No. 10-0G4701	May 2010 Figure 2b

APPENDIX

A





Project No. E8477-06-01
April 24, 2009

Keith Meyer
Rajappan & Meyer Consulting Engineers
1038 Leigh Avenue, Suite 100
San Jose, California 95126

Subject: LIMITED SITE INVESTIGATION WORKPLAN
I-5 NORTH STOCKTON WIDENING PROJECT
CHARTER WAY TO EIGHT MILE ROAD, PACKAGES 1 AND 2
NORTH STOCKTON, SAN JOAQUIN COUNTY, CALIFORNIA

Dear Mr. Meyer:

Geocon is submitting this Limited Site Investigation Workplan for a preliminary site investigation to be performed at the subject site. This workplan describes the scope of work requested by Rajappan & Meyer Consulting Engineers (R&M) and outlines procedures and methods that we will employ to complete the project. The project consists of a soil investigation to evaluate the potential for heavy metals, including aerially deposited lead (ADL) and petroleum hydrocarbons along a segment of Interstate 5 (I-5) in North Stockton. The project services also include asbestos containing materials (ACM) and lead-containing paint (LCP) surveys of bridge structures located within the project boundaries.

PROJECT LOCATION

The site investigation will be performed along the northbound (NB) and southbound (SB) shoulders, median, interchanges, and bridge structures within the project limits of I-5 in North Stockton, San Joaquin County, California. The project site extends approximately from Charter Way to Eight Mile Road, and consists of approximately ten miles. The proposed construction activities will be conducted within existing California Department of Transportation (Caltrans) right-of-way (ROW). The site location is depicted on the Vicinity Map, Figure 1.

This workplan is for services to be provided for bid packages 1 and 2, and includes the following:

Package 1 – Inside Widening – South of Charter Way to North of Hammer Lane

This package includes inside widening to eight through lanes, construction of full auxiliary lanes between interchanges from March Lane to Hammer Lane, and construction of soundwalls along with the auxiliary lane improvements. In addition, this phase includes restriping and signing of existing I-5 from Charter Way to Country Club Drive for peak hour HOV operations.

Bridge widening will be required for I-5 overcrossings at the following locations:

- 1) Country Club Boulevard undercrossing (UC)
- 2) Michigan Avenue UC
- 3) West Alpine Avenue UC
- 4) Telegraph Avenue UC
- 5) River Drive/Calaveras River
- 6) Mokelumne Aqueduct and associated linear park
- 7) March Lane UC
- 8) Fourteen Mile Slough NB and SB
- 9) Swain Road UC NB and SB
- 10) Benjamin Holt Drive
- 11) Hammer Lane UC
- 12) Five Mile Slough NB and SB

Package 2 – Inside Widening – North of Hammer Lane to North of Eight Mile Road

This package includes inside widening of I-5 to eight through lanes from Hammer Lane to north of Eight Mile Road, between Post Miles (PM) 33.0/35.6. This alternative assumes that I-5 over the future Otto Drive interchange is depressed under an at-grade I-5. Addition of one lane is proposed in each direction in the median.

A new bridge will be required over future Otto Drive UC. Bridge widening will be required for I-5 overcrossings at the following locations:

- 1) Mosher Slough
- 2) Bear Creek
- 3) McAuliffe Drive

PURPOSE

The purpose of the proposed scope of services is to evaluate whether ADL impacts exist in the surface and near surface soil due to historic leaded fuel emissions from automobile exhausts, and determine if heavy metals or petroleum hydrocarbon compounds have impacted deeper soil at proposed retaining wall/sound wall locations. The information obtained from this investigation will be used by R&M to coordinate I-5 North Stockton Widening Project activities, and evaluate soil reuse/disposal options and worker health and safety.

The project also includes ACM/LCP surveys of the structures located within the project boundaries to assess the potential presence and quantity of asbestos and potential presence of lead paint prior to planned renovation activities. The information obtained from the surveys will be used by R&M to coordinate proposed improvement activities, determine appropriate abatement/disposal costs, and identify health and safety concerns during improvements.

BACKGROUND

Aerially Deposited Lead

Ongoing testing by Caltrans throughout the State has indicated that ADL exists along major freeway routes due to emissions from vehicles powered by leaded gasoline. The ADL is generally limited to the upper 2 feet of soil material within the unpaved shoulder and median areas.

For a solid waste containing lead, the waste is classified as California hazardous when: 1) the total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTLC) of 1,000 milligrams per kilogram (mg/kg); or 2) the soluble lead content equals or exceeds the respective

Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter (mg/l) based on the standard Waste Extraction Test (WET). A waste has the potential for exceeding the lead STLC when the waste's total lead content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when total lead is detected at a concentration greater than or equal to 50 mg/kg, and assuming that 100 percent of the total lead is soluble, soluble lead analysis is required. Lead-containing waste is classified as "Resource, Conservation, and Recovery Act" (RCRA) hazardous, or Federal hazardous, when the soluble lead content equals or exceeds the Federal regulatory level of 5 mg/l based on the Toxicity Characteristic Leaching Procedure (TCLP).

The regulatory criteria for suspected hazards on the Site are based on toxicity. Wastes may also be classified as hazardous based on other criteria such as flammability, reactivity, corrosivity, and ignitability. However, for the purposes of this investigation, toxicity (i.e., lead concentrations) and corrosivity (i.e., pH analysis) are the primary factors considered for waste classification. Based on current and past site usage, onsite soil is not expected to exhibit other hazardous waste characteristics.

The Department of Toxic Substances Control (DTSC) regulates and interprets hazardous waste laws in California. The DTSC generally considers excavated or transported materials that exhibit "hazardous waste" characteristics to be a "waste" requiring proper management, treatment and disposal. Soil that contains lead above hazardous waste thresholds and is left in-place would not be necessarily classified by DTSC as a "waste." The DTSC has provided site-specific determinations that "movement of wastes within an area of contamination does not constitute "land disposal" and, thus, does not trigger hazardous waste disposal requirements." Therefore, lead-impacted soil that is scarified in-place, moisture-conditioned, and recompacted during landscaping improvement activities might not be considered a "waste;" DTSC should be consulted to confirm waste classification. It is noted that in addition to DTSC regulations, health and safety requirements and other local agency requirements may also apply to the handling and disposal of lead-impacted soil. Waste that is classified as either "California hazardous" or "RCRA hazardous," requires management as a hazardous waste and disposal at an appropriately permitted disposal facility.

Asbestos Containing Materials

The *Code of Federal Regulations (CFR)*, 40 CFR 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Federal Occupational Safety and Health Administration (FED OSHA) classify asbestos-containing material (ACM) as any material or product that contains *greater than* 1% asbestos. Nonfriable ACM is classified by NESHAP as either Category I or Category II material defined as follows:

- **Category I** – asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.
- **Category II** – all remaining types of non-friable asbestos-containing material not included in Category I that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated asbestos-containing material (RACM), a hazardous waste when friable, is classified as any manufactured material that contains *greater than* 1% asbestos by dry weight *and* is:

- Friable; or
- Category I material that has become friable; or
- Category I material that has been subjected to sanding, grinding, cutting, or abrading; or
- Category II non-friable material that has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition or renovation activities.

Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the Cal/OSHA asbestos standard contained in Title 8, CCR Section 1529. Typically, removal or

disturbance of more than 100 square feet of material containing more than 0.1% asbestos must be performed by a registered asbestos abatement contractor, but associated waste labeling is not required if the material contains 1% or less asbestos. When the asbestos content of a material exceeds 1%, virtually all requirements of the standard become effective.

Materials containing more than 1% asbestos are also subject to NESHAP regulations (40 CFR Part 61, Subpart M). RACM (friable ACM and nonfriable ACM that will become friable during demolition operations) must be removed from structures prior to demolition. Certain nonfriable ACM and materials containing 1% or less asbestos may remain in structures during demolition; however, there are waste handling/disposal issues and Cal/OSHA work requirements that must be followed. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

With respect to potential worker exposure, notification, and registration requirements, Cal/OSHA defines asbestos-containing construction material (ACCM) as construction material that contains more than 0.1% asbestos (Title 8, CCR 341.6).

Lead Containing Paint

Construction activities (including demolition) that disturb materials or paints containing *any* amount of lead are subject to certain requirements of the Cal/OSHA lead standard contained in Title 8, CCR, Section 1532.1. Deteriorated paint is defined by Title 17, CCR, Division 1, Chapter 8, §35022 as a surface coating that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separating from a component. Demolition of a deteriorated LCP component would require waste characterization and appropriate disposal. Most landfill facilities and recyclers currently accept intact LCP on a component; however, contractors are responsible for segregating and characterizing waste streams prior to disposal.

PROJECT SCOPE

Outlined below is a summary of the scope of services to be performed.

Pre-Field Activities

- Prepare a Health and Safety Plan (HSP) for the proposed sampling and surveys. The HSP will provide guidelines on the use of personal protective equipment and the health and safety procedures to be implemented during the proposed survey activities as specified in T8 CCR §1529 (Cal/OSHA Asbestos Standard), T8 CCR §3203 (Injury and Illness Prevention Program), T8 CCR §3204 (Access to Employee Exposure and Medical Records), T8 CCR §5095-5100 (Hearing Conservation Program), T8 CCR §5144 (Respiratory Protection), and T8 CCR §5192 (Hazardous Waste Operations and Emergency Response).
- Obtained Caltrans Encroachment Permit No. 10-09-N-DP-0182.
- Arrange for traffic control (shoulder closure) and signage services as necessary in conformance with Caltrans *Standard Provisions for Maintaining Traffic* as specified in *Standard Plans T-10, T-10A, T-11, T-12, T-13, and T-14*.
- Retain the services of a Caltrans-approved laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) to perform the analyses.
- Notify Underground Service Alert (USA) at least 48 hours prior to fieldwork involving drilling or direct push sampling activities.

Field Activities

Package 1

ADL Investigation along I-5 Median and Shoulders

Up to 122 borings will be advanced along the median (71 borings), and northbound and southbound shoulders (51 borings), at approximately 100-meter intervals using hand auger and/or direct-push drilling methods. Soil samples will be collected at depths intervals of 0 to 0.5 foot (ft), 1 to 1.5 ft, and 2 to 2.5 ft at each boring location, as depicted on Package 1 Layouts 1 and 2. Completed soil boreholes will be backfilled to ground surface with the soil cuttings.

Soil Sampling at Retaining/Soundwalls

Up to 16 borings will be advanced in the vicinity of proposed retaining/soundwalls using direct-push drilling methods. Soil samples will be collected at depth intervals of 0 to 0.5 ft and 4.0 to 4.5 ft at each location. Proposed boring locations are depicted on Package 1 - Layouts 1 and 2. Completed soil boreholes will be backfilled to ground surface with the soil cuttings.

ACM/LCP Surveys of Bridge Structures

Surveys will be conducted at the twelve previously listed bridge structures for suspect ACM and LCP. The surveys include collecting samples for asbestos analysis via the polarized light microscopy (PLM) method, using asbestos point count (400 pts) techniques, paint samples for total and soluble (WET or TCLP) lead.

Package 2

ADL Investigation along I-5 Median and Otto Drive Interchange

Up to 63 borings will be advanced along the median (43 borings), and northbound and southbound shoulders (20 borings), at approximately 100-meter intervals using hand auger and/or direct-push drilling methods. Soil samples will be collected at depths intervals of 0 to 0.5 foot (ft), 1 to 1.5 ft, and 2 to 2.5 ft at each boring location, as depicted on Package 2 Layout sheet. Completed soil boreholes will be backfilled to ground surface with the soil cuttings.

Soil Sampling at Retaining/Soundwalls

Up to 5 borings will be advanced in the vicinity of proposed retaining/soundwalls using direct-push drilling methods. Soil samples will be collected at depth intervals of 0 to 0.5 ft and 4.0 to 4.5 ft at each location. Proposed boring locations are depicted on the Package 2 Layouts sheet. Completed soil boreholes will be backfilled to ground surface with the soil cuttings.

ACM/LCP Surveys of Bridge Structures

Surveys will be conducted at the three previously listed bridge structures for suspect ACM and LCP. The surveys include collecting samples for asbestos analysis via the PLM method, using asbestos point count (400 pts) techniques, paint samples for total and soluble (WET or TCLP) lead.

Sampling Methods

Soil Borings

Boring locations will be surveyed using Differential Global Positioning System (DGPS) equipment. We will arrange for and provide traffic control consisting of shoulder closures, if necessary.

Sampling equipment will be cleansed between each sample location by washing the equipment with an Alconox™ or Liquinox™ solution followed by a double rinse with deionized water. Decontamination water will be disposed to the ground surface within the Caltrans right-of-way in a manner not to create runoff, away from drain inlets or potential water bodies.

Soil samples will be collected in resealable polyethylene bags, laboratory supplied glass jars, stainless steel sample tubes, or acetate liners depending on sampling method. The sample containers will be sealed, labeled, and transported to a Caltrans-approved, certified environmental laboratory using standard chain-of-custody documentation.

ACM/LCP Surveys

Samples collected for asbestos analysis will consist of bulk samples of each type (homogenous area) of potentially asbestos-containing material from the bridge structures, including deck expansion joint seals. Sample locations will be indicated on diagrams presented with the final reports. The bulk samples will be collected by a Geocon Asbestos Hazard and Emergency Response Act (AHERA)-trained and Cal/OSHA Certified Asbestos Consultant (CAC). Photographs of each structure in general and of the sample locations in particular will be taken and included in the final reports. Samples will be transported to a certified environmental laboratory using standard chain-of-custody documentation.

When the asbestos content is visually estimated to be less than 10% in a material, the Client and Caltrans may elect to (1) assume the amount is greater than 1% and treat the material as asbestos-containing, or (2) request verification of the amount by PLM point counting. If the results obtained by point counting and visual estimation are different, the point count result must be used. When no asbestos is detected by PLM, point counting is not required.

Quality Assurance/Quality Control Procedures

Quality assurance/quality control (QA/QC) procedures will be performed during the field exploration activities. These procedures will include decontamination of sampling equipment before each sample is collected and providing chain-of-custody documentation for each sample submitted to the laboratory. Asbestos sampling equipment will be decontaminated between homogenous material sample groups by washing with a soap and water solution. The soil sampling equipment will be cleaned between each boring by washing the equipment with an Alconox® solution followed by a double rinse with deionized water. General soil types for each location will be noted on the daily field log. The borings will be backfilled with the excess soil cuttings or with neat cement grout. The decontamination water will be discharged to the ground surface away from surface water bodies or storm drain inlets.

Project Personnel

Mr. Richard Day, a Professional Geologist (PG), and Ms. Lauren Vigliotti, Sr. Staff Geologist, will manage the project. Mr. David Watts or Mr. Chris Giuntoli will perform the ACM/LCP surveys. Mr. Day and Ms. Vigliotti will provide recommendations regarding soil sample results and associated reuse/disposal options. Messrs. Watts and Giuntoli will provide recommendations with respect to handling asbestos-containing materials, should any be detected.

Laboratory Analyses

All samples will be analyzed under standard one-week turnaround-times following sample submittal to the laboratory. Laboratory analyses will include the following:

Package 1

ADL Investigation along I-5 Median and Shoulders

- Up to 366 soil samples will be analyzed for total lead using Environmental Protection Agency (EPA) Test Method 6010.
- Soil samples that exceed ten times the lead STLC will be further analyzed for soluble WET lead.
- Soil samples analyzed for soluble WET lead that exceed the STLC may be further analyzed using WET-DI or TCLP analyses.
- Up to 37 samples will be analyzed for pH using EPA Test Method 9045.

Soil Sampling at Retaining/Soundwalls

- Up to 16 soil samples will be analyzed for CAM17 Metals using EPA Test Method 6010/7000.
- Up to 16 soil samples will be analyzed for TPH as gasoline (TPHg), BTEX, and MTBE using EPA Test Method 8021B
- Up to 16 soil samples will be analyzed for TPH as diesel and motor oil (TPHd/mo) using EPA Test Method 8015B

ACM/LCP Survey of Bridge Structures

- Up to 24 bulk samples will be analyzed for asbestos type and content per (EPA) Test Method 600/R-93/116 using PLM
- Bulk samples with asbestos concentrations less than or equal to one percent may be further analyzed for asbestos using PLM point counting (400 points) techniques
- Up to 12 paint chip samples will be analyzed for total lead using EPA Test Method 6010
- Paint chip samples may be further analyzed for soluble lead using WET and/or TCLP methods

Package 2

ADL Investigation along I-5 Median and Otto Drive Interchange

- Up to 189 soil samples will be analyzed for total lead using Environmental Protection Agency (EPA) Test Method 6010.
- Soil samples that exceed ten times the lead STLC will be further analyzed for soluble WET lead.
- Soil samples analyzed for soluble WET lead that exceed the STLC may be further analyzed using WET-DI or TCLP analyses.
- Up to 19 samples will be analyzed for pH using EPA Test Method 9045.

Soil Sampling at Retaining/Soundwalls

- Up to 5 soil samples will be analyzed for CAM17 Metals using EPA Test Method 6010/7000.
- Up to 5 soil samples will be analyzed for TPH as gasoline (TPHg), BTEX, and MTBE using EPA Test Method 8021B
- Up to 5 soil samples will be analyzed for TPH as diesel and motor oil (TPHd/mo) using EPA Test Method 8015B

ACM/LCP Survey of Bridge Structures

- Up to 6 bulk samples will be analyzed for asbestos type and content per (EPA) Test Method 600/R-93/116 using PLM
- Bulk sample with asbestos concentrations less than or equal to one percent may be further analyzed for asbestos using PLM point counting (400 points) techniques
- Up to 3 paint chip samples will be analyzed for total lead using EPA Test Method 6010
- Paint chip samples may be further analyzed for soluble lead using WET and/or TCLP methods

Report Preparation

A soil and groundwater site investigation report will be prepared to present the background information, field observations, laboratory data, data evaluation, and conclusions. The report will include but not be limited to the following:

- Introduction/Project Description
- Investigative Methods
- Investigative Results and Field Observations
- Data Statistical Analyses and Discussion
- Conclusions and Recommendations (including disposal site recommendations, if necessary)
- GPS Boring and Sample Location Data
- Soil and Groundwater Analytical Data Tables
- Vicinity Map
- Site Plans Depicting Boring and Sample Locations
- Appendices including Laboratory Reports and Chain-of-Custody Documentation

The site investigation report will be prepared for review and comment by R&M; a final report will be subsequently submitted.

A separate draft ACM/LCP survey report will be prepared presenting the background information, field observations, laboratory data, data evaluation, and conclusions. The report will include an executive summary, photographs, diagrams of sample locations, and laboratory results presented in tabular format. If asbestos is detected, the reports will include an estimate of the quantity of asbestos present and Geocon's opinion of probable abatement costs. The final report will be submitted after R&M provides written draft report review comments.

Please contact us if you have questions concerning the contents of this workplan, or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.



Lauren Vigliotti
Senior Staff Geologist

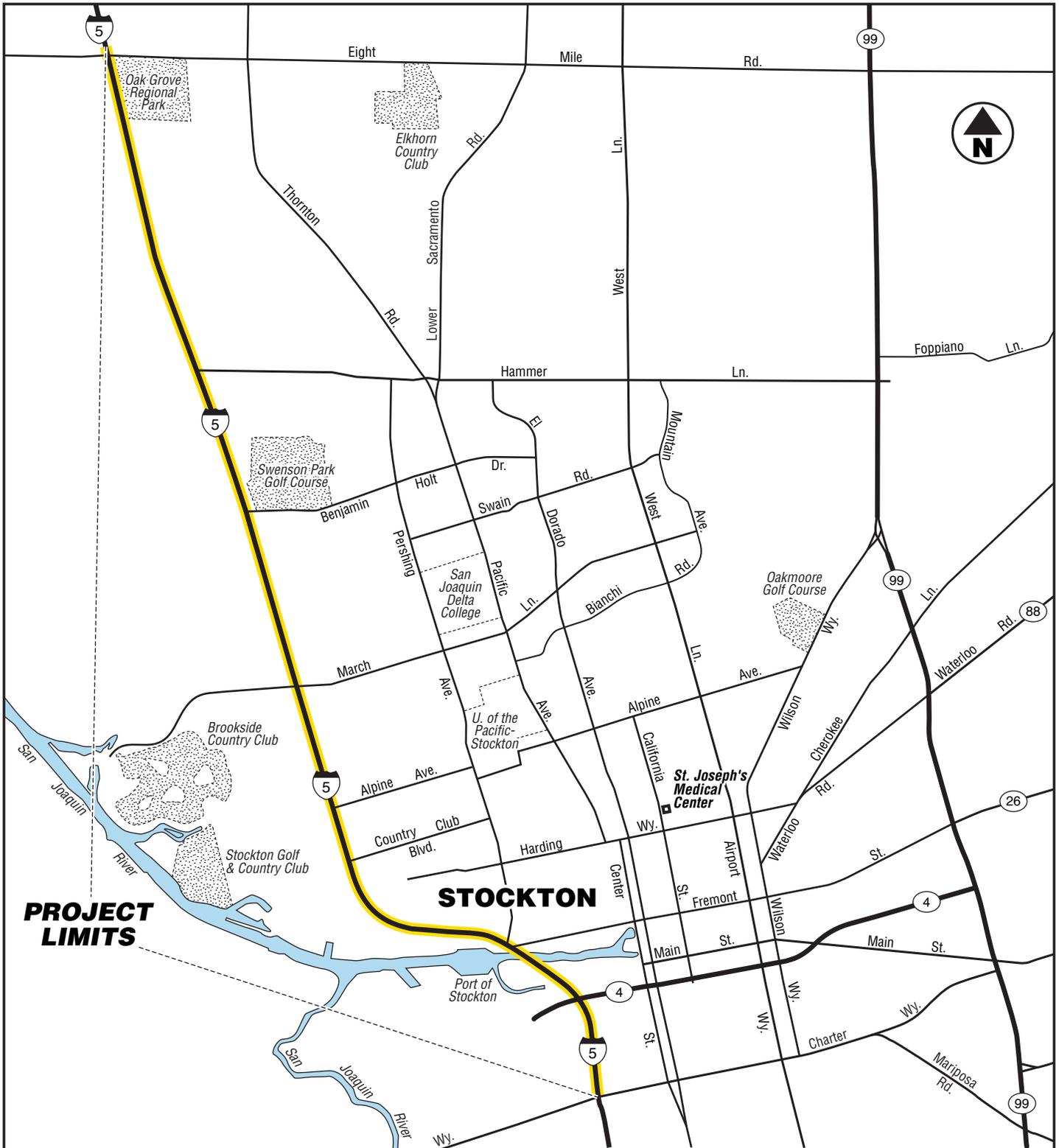


Richard Day, PG, CEG, CHG
Vice President

LJV:RWD:ljv

Attachments: Figure 1 - Vicinity Map
Package 1 - Layout Sheets 1 and 2
Package 2 - Layout Sheet

- (1) Addressee
- (1) Susan Greenwood, Caltrans District 6



PROJECT LIMITS

STOCKTON



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 - FAX 916 852-9132

I-5 North Stockton Widening Project

Stockton,
California

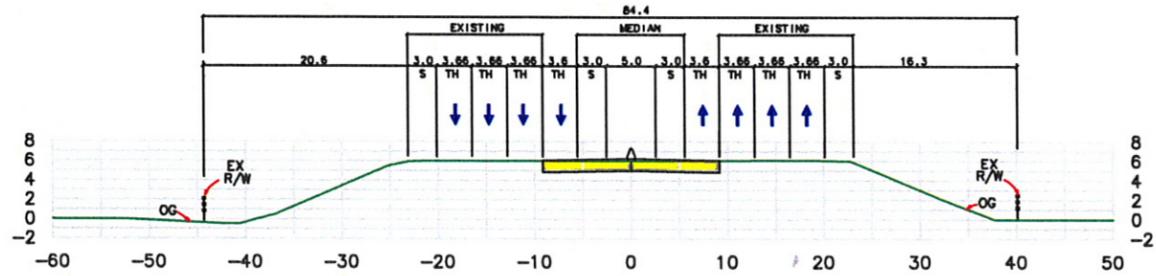
VICINITY MAP

E8477-06-01

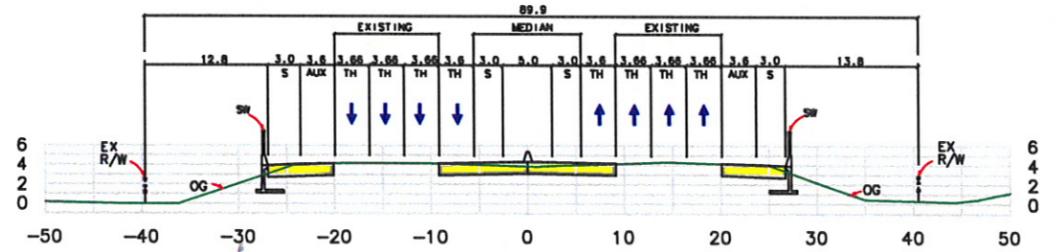
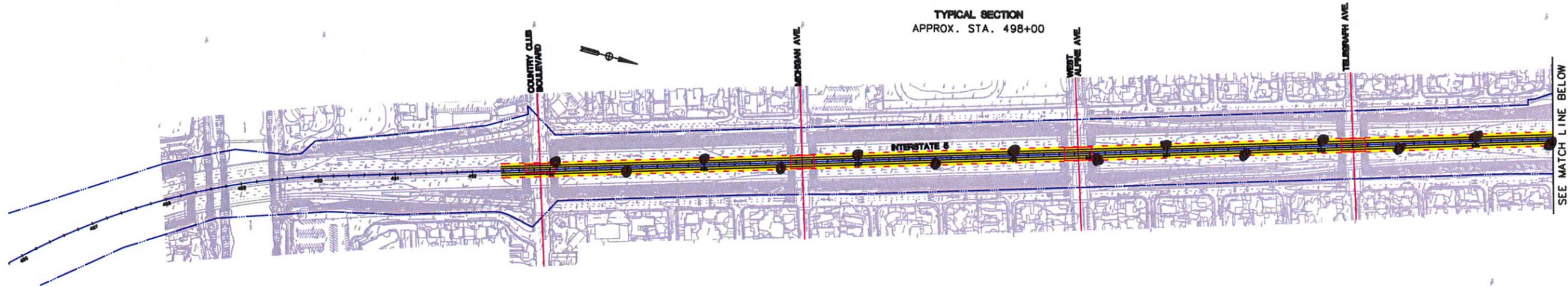
February 2009

Figure 1

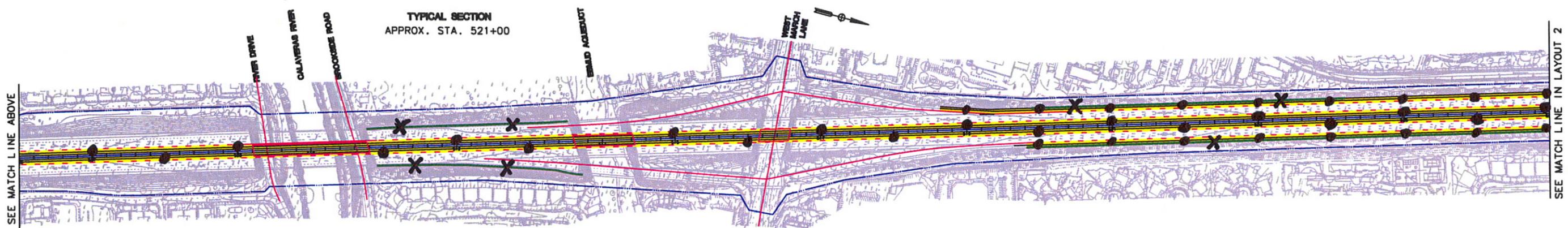
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 X = RW/SW BORING



TYPICAL SECTION
 APPROX. STA. 498+00



TYPICAL SECTION
 APPROX. STA. 521+00

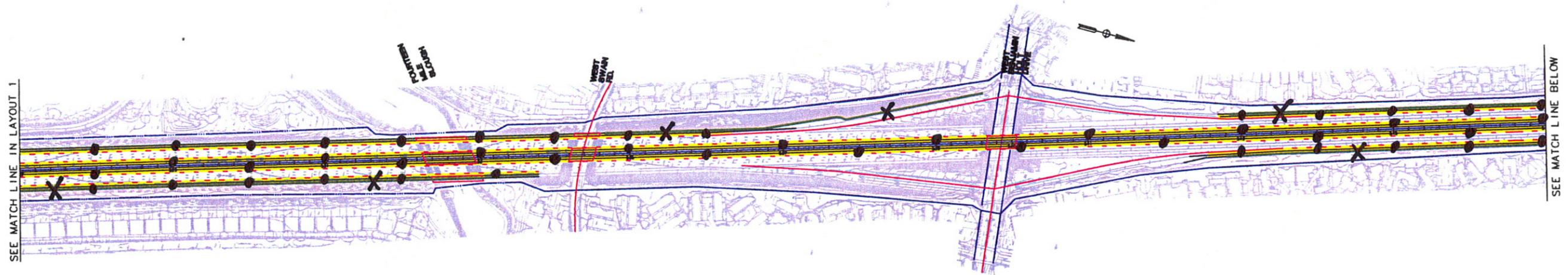


PACKAGE 1

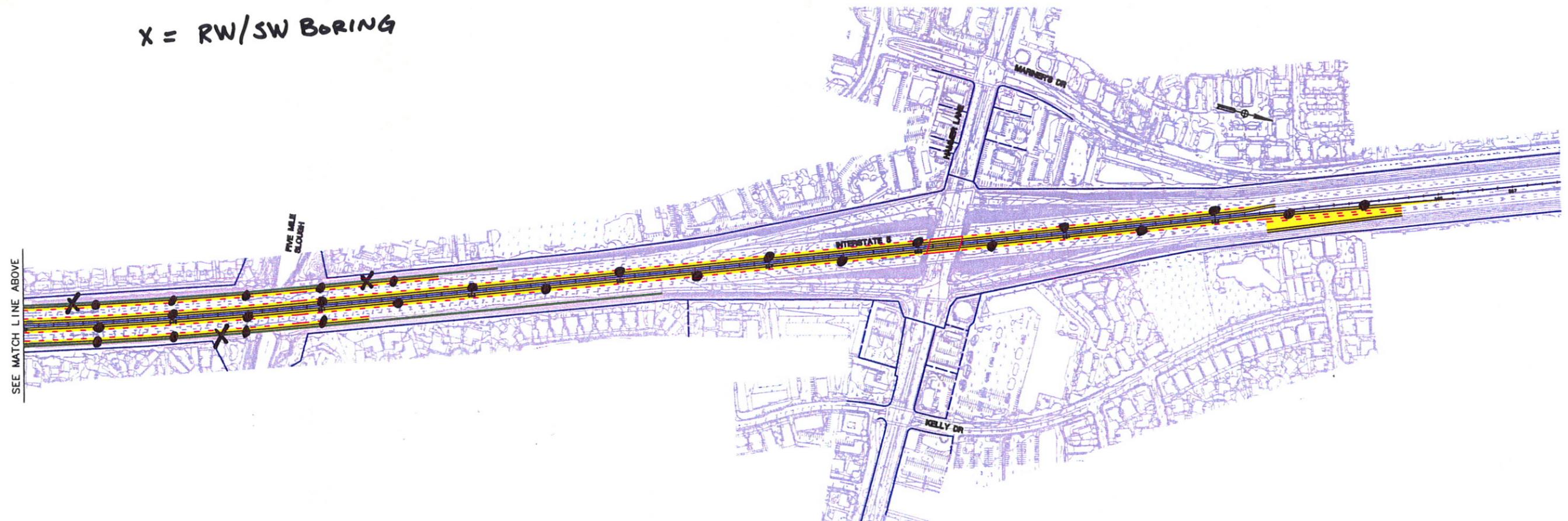
I-5 INSIDE WIDENING BETWEEN COUNTRY CLUB AND NORTH OF HAMMER LANE
 AND AUX LANES BETWEEN MARCH LANE AND HAMMER LANE

- LEGEND**
- SOUNDWALL
 - PROPOSED IMPROVEMENTS
 - RIGHT OF WAY

LAYOUT 1



● = ADL BORING
 X = RW/SW BORING



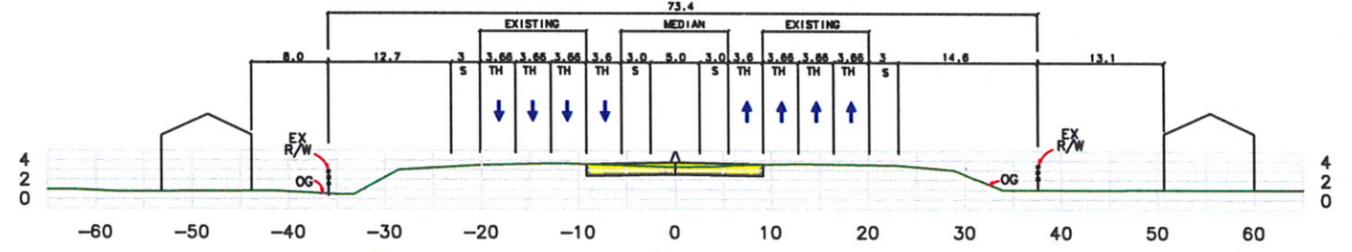
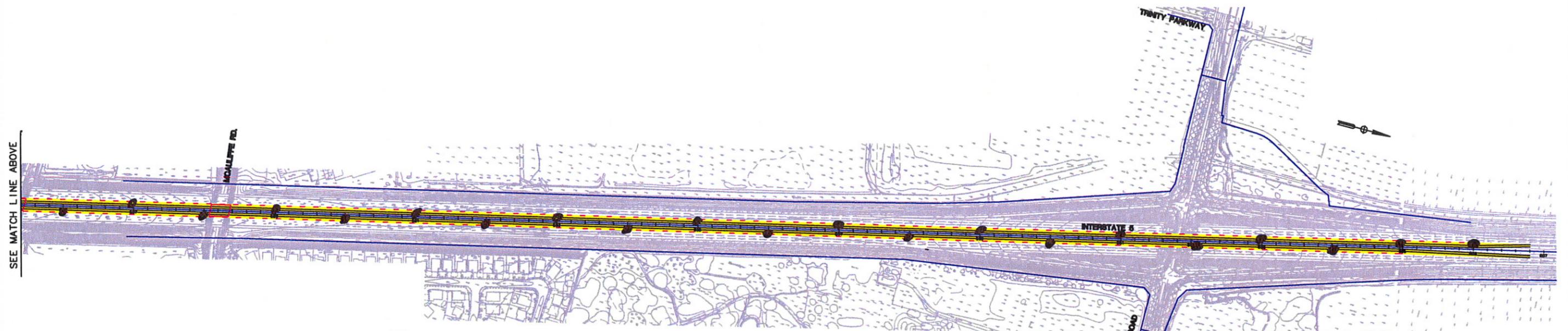
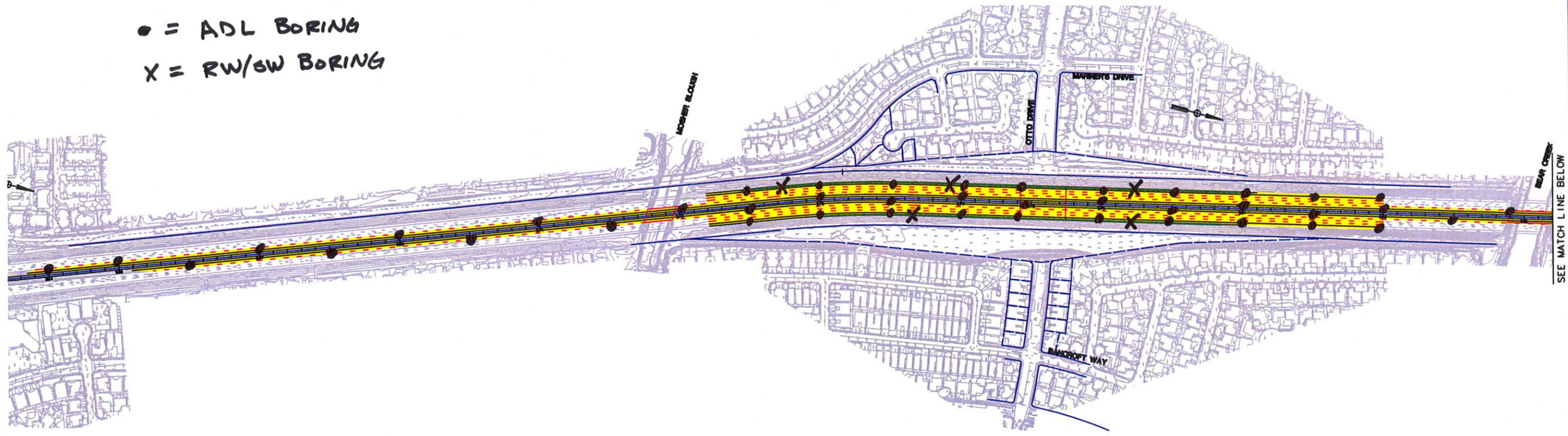
PACKAGE 1

**I-5 INSIDE WIDENING BETWEEN COUNTRY CLUB AND NORTH OF HAMMER LANE
 AND AUX LANES BETWEEN MARCH LANE AND HAMMER LANE**

- LEGEND**
- SOUNDWALL
 - PROPOSED IMPROVEMENTS
 - RIGHT OF WAY

LAYOUT 2

● = ADL BORING
 X = RW/SW BORING



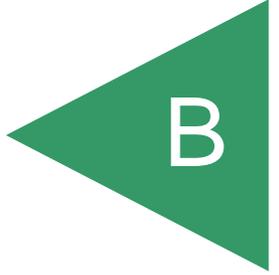
TYPICAL SECTION
 APPROX. STA. 570+00

LEGEND
 SOUNDWALL
 PROPOSED IMPROVEMENTS
 RIGHT OF WAY

PACKAGE 2

I-5 INSIDE WIDENING BETWEEN NORTH OF HAMMER LANE AND NORTH OF EIGHT MILE ROAD

APPENDIX





*California Environmental Protection Agency
Department of Toxic Substances Control*

VARIANCE

Applicant Names:

Variance No. V09HQSCD006

State of California
Department of Transportation
(Caltrans)
1120 N Street
Sacramento, California 95814

Effective Date: July 1, 2009

Expiration Date: July 1, 2014

Modification History:

Pursuant to California Health and Safety Code, Section 25143, the Department of Toxic Substances Control hereby issues the attached Variance consisting of 9 pages to the Department of Transportation.

A handwritten signature in cursive script that reads "Beverly Rikala".

Beverly Rikala
Team Leader, Operating Facilities Team
Department of Toxic Substances Control

Date: 6/30/09

VARIANCE

1. INTRODUCTION.

a) Pursuant to Health and Safety Code, section 25143, the California Department of Toxic Substances Control (DTSC) grants this variance to the applicant below for waste considered to be hazardous solely because of its lead concentrations and as further specified herein.

b) DTSC hereby grants this variance only from the requirements specified herein and only in accordance with all terms and conditions specified herein.

2. IDENTIFYING INFORMATION.

APPLICANT/OWNER/OPERATOR

State of California
Department of Transportation, (Caltrans)
All Districts

3. TYPE OF VARIANCE.

Generation, Manifest, Transportation, Storage and Disposal.

4. ISSUANCE AND EXPIRATION DATES.

DATE ISSUED: July 1, 2009 EXPIRATION DATE: July 1, 2014

5. APPLICABLE STATUTES AND REGULATIONS. The hazardous waste that is the subject of this variance is fully regulated under Health and Safety Code, section 25100, et seq. and California Code of Regulations, title 22, division 4.5 except as specifically identified in Section 8 of this variance.

6. DEFINITION. For purposes of this variance, "lead-contaminated soil(s)" shall mean soil that meets the criteria for hazardous waste but contains less than 3397 mg/kg total lead and is hazardous primarily because of aeriially-deposited lead contamination associated with exhaust emissions from the operation of motor vehicles.

7. FINDINGS/DETERMINATIONS. DTSC has determined that the variance applicant meets the requirements set forth in Health and Safety Code, section 25143 for a variance from specific regulatory requirements as outlined in Section 8 of this variance. The specific determinations and findings made by DTSC are as follows:

a) Caltrans intends to excavate, stockpile, transport, bury and cover large volumes of soil associated with highway construction projects. In the more urbanized highway corridors around the State this soil is contaminated with lead, primarily due to historic emissions from automobile exhausts. In situ sampling and laboratory testing has shown that some of the soil contains concentrations of lead in excess of State regulatory thresholds, and thus any generated waste from disturbance of the soil

would be regulated as hazardous waste. Such soil contains a Total Threshold Limit Concentration (TTLC) of 1000 milligrams per kilogram (mg/kg) or more lead and/or it meets or exceeds the Soluble Threshold Limit Concentration (STLC) for lead of 5 milligrams per liter (mg/l). A Human Health Risk Assessment prepared for this variance concludes that soil contaminated with elevated concentrations of lead can be managed in a way that presents no significant risk to human health.

b) The lead-contaminated soil will be placed only in Caltrans' right-of-way. Depending on concentration levels, the wastes will be covered with a minimum thickness of one (1) foot of non-hazardous soil or asphalt/concrete cover and will always be at least five (5) feet above the highest groundwater elevation. Caltrans will assure that proper health and safety procedures will be followed for workers, including any persons engaged in maintenance work in areas where the waste has been buried and covered.

c) DTSC finds and requires that the lead-contaminated soil excavated, stockpiled, transported, buried and covered pursuant to this variance is a non-RCRA hazardous waste, and that the waste management activity is insignificant as a potential hazard to human health and safety and the environment, when managed in accordance with the conditions, limitations and other requirements specified in this variance.

8. PROVISIONS WAIVED.

Provided Caltrans meets the terms and conditions of this variance, DTSC waives the hazardous waste management requirements of Health and Safety Code, Chapter 6.5 and California Code of Regulations, title 22 for the lead-contaminated soil that Caltrans reuses in projects that would require Caltrans to obtain a permit for a disposal facility and any other generator requirements that concern the transportation, manifesting, storage and land disposal of hazardous waste.

9. SPECIFIC CONDITIONS, LIMITATIONS AND OTHER REQUIREMENTS.

In order for the provisions discussed in section 8 to be waived, lead-contaminated soil must not exceed the contaminant concentrations discussed below and Caltrans management practices must meet all the following conditions:

a) Caltrans implementation of this variance shall comply with all applicable state laws and regulations for water quality control, water quality control plans, waste discharge requirements (including storm water permits), and others issued by the State Water Resources Control Board (SWRCB) and/or a California Regional Water Quality Control Board (RWQCB). Caltrans shall provide written notification to the appropriate RWQCB at least 30 days prior to advertisement for bids of projects that involve invocation of this variance, or as otherwise negotiated with the SWRCB or appropriate RWQCB.

b) The waivers in this variance shall only be applied to lead-contaminated soil that is not a RCRA hazardous waste and is hazardous primarily because of aerially-

deposited lead contamination associated with exhaust emissions from the operation of motor vehicles. The variance is not applicable to any other hazardous waste.

c) Soil containing 1.5 mg/l extractable lead or less (based on a modified waste extraction test using deionized water as the extractant) and 1411 mg/kg or less total lead may be used as fill provided that the lead-contaminated soil is placed a minimum of five (5) feet above the maximum historic water table elevation and covered with at least one (1) foot of nonhazardous soil that will be maintained by Caltrans to prevent future erosion.

d) Soil containing 150 mg/L extractable lead or less (based on a modified waste extraction test using deionized water as the extractant) and 3397 mg/kg or less total lead may be used as fill provided that the lead-contaminated soils are placed a minimum of five (5) feet above the maximum historic water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.

e) Lead-contaminated soil with a pH less than 5.5 but greater than 5.0 shall only be used as fill material under the paved portion of the roadway. Lead-contaminated soil with a pH at or less than 5.0 shall be managed as a hazardous waste.

f) For each project that has the potential to generate waste by disturbing lead-contaminated soil (as defined in 6), Caltrans shall conduct sampling and analysis to adequately characterize the soils containing aerially deposited lead in the areas of planned excavation along the project route. Such sampling and analysis shall include the Toxicity Characteristic Leaching Procedure (TCLP) as prescribed by the United States Environmental Protection Agency to determine whether concentrations of contaminants in soil exceed federal criteria for classification as a hazardous waste.

g) Lead-contaminated soil managed pursuant to this variance shall not be moved outside the designated corridor boundaries (see paragraph t) below. All lead-contaminated soil not buried and covered within the same Caltrans corridor where it originated is not eligible for management under this variance and shall be managed as a hazardous waste.

h) Lead-contaminated soil managed pursuant to this variance shall not be placed in areas where it would become in contact with groundwater or surface water (such as streams and rivers).

i) Lead-contaminated soil managed pursuant to this variance shall be buried and covered only in locations that are protected from erosion that may result from storm water run-on and run-off.

j) The lead-contaminated soil shall be buried and covered in a manner that will prevent accidental or deliberate breach of the asphalt, concrete, and/or cover soil.

k) The presence of lead-contaminated soil shall be incorporated into the projects' as-built drawings. The as-built drawings shall be annotated with the location, representative analytical data, and volume of lead-contaminated soil. The as-built drawings shall also state the depth of the cover. These as-built drawings shall be retained by Caltrans.

l) Caltrans shall ensure that no other hazardous wastes, other than the lead-contaminated hazardous waste soil, are placed in the burial areas.

m) Lead-contaminated soil shall not be buried within ten (10) feet of culverts or locations subject to frequent worker exposure.

n) Excavated lead-contaminated soil not placed into the designated area (fill area, roadbed area) by the end of the working day shall be stockpiled and covered with sheets of polyethylene or at least one foot of non-hazardous soil. The lead-contaminated soil, while stockpiled or under transport, shall be protected from contacting surface water and from being dislodged or transported by wind or storm water. The stockpile covers shall be inspected at least once a week and within 24 hours after rainstorms. If the lead-contaminated soil is stockpiled for more than 4 days from the time of excavation, Caltrans shall restrict public access to the stockpile by using barriers that meet the safety requirements of the construction zone. The lead-contaminated soil shall be stockpiled for no more than 90 days from the time the soil is first excavated. If the contaminated soil is stockpiled beyond the 90 day limit Caltrans shall:

1. notify DTSC in writing of the 90 day exceedance and expected date of removal;
2. perform weekly inspections of the stockpiled material to ensure that there is adequate protection from run-on, runoff, public access, and wind dispersion; and
3. notify DTSC on weekly basis of the stockpile status until the stockpile is removed.

The lead-contaminated soil shall be stockpiled for no more than 180 days from the time the soil is first excavated.

o) Caltrans shall ensure that all stockpiling of lead-contaminated soil remains within the project area of the specified corridor. Stockpiling of lead-contaminated soil within the specified corridor, but outside the project area, is prohibited.

p) Caltrans shall conduct confirmatory sampling of any stockpile area in areas not known or expected to contain lead-contaminated soil after removal of the lead-contaminated soil to ensure that contamination has not been left behind or has not migrated from the stockpiled material to the surrounding soils.

q) Caltrans shall stockpile lead-contaminated soil only on high ground (i.e. no sump areas or low points) so that stockpiled soil will not come in contact with surface

water run-on or run-off.

r) Caltrans shall not stockpile lead-contaminated soil in environmentally and ecologically sensitive areas.

s) Caltrans shall ensure that storm/rain run-off that has come into contact with stockpiled lead-contaminated soil will not flow to storm drains, inlets, or waters of the State.

t) Caltrans may dispose of the lead-contaminated soil only within the operating right-of-way of an existing highway, as defined in Streets and Highways Code, section 23. Caltrans may move lead-contaminated soil from one Caltrans project to another Caltrans project only if the lead-contaminated soil remains within the same designated corridor.

Caltrans shall record any movement of lead-contaminated soil by using a bill of lading. The bill of lading must contain: 1) the US DOT description including shipping name, hazard class and ID number; 2) handling codes; 3) quantity of material; 4) volume of material; 5) date of shipment; 6) origin and destination of shipment; and 7) any specific handling instructions. The bill of lading shall be referenced in and kept on file with the project's as-built drawings. The lead-contaminated soil must be kept covered during transportation.

u) For each specific corridor where this variance is to be implemented, all of the following information shall be submitted in writing to DTSC at least five (5) days before construction of any project begins:

1. plan drawing designating the boundaries of the corridor where lead-contaminated soils will be excavated, stockpiled, buried and covered;
2. a list of the Caltrans projects that the corridor encompasses;
3. a list of Caltrans contractors that will be conducting any phase of work on any project affected by this variance;
4. duration of corridor construction;
5. location where sampling and analytical data used to make lead concentration level determinations are kept (e.g. a particular Caltrans project file);
6. name and phone number (including area code) of project resident engineer and project manager;
7. location where Caltrans and contractor health and safety plan and records are kept;

8. location of project special provisions (including page or section number) for soil excavation, transportation, stockpile, burial and placement of cover material;

9. location of project drawings (including drawing page number) for soil excavation, burial and placement of cover in plan and cross section (for example, "The project plans are located at the resident engineer's office located at 5th and Main Streets, City of Fresno, See pages xxxxx of contract xxx");

10. updated information if a Caltrans project within the corridor is added, changed or deleted; and

11. type of environmental document prepared for each project, date of adoption, document title, Clearing House number and where the document is available for review. A copy of the Caltrans Categorical Exemption, Categorical Exclusion Form, or if filed, the Notice of Exemption for any project shall be submitted to the DTSC Headquarters Project Manager.

v) Changes in location of lead-contaminated soil placement, quantities or protection measures (field changes) shall be noted in the resident engineer's project log within five (5) days of the field change.

w) Caltrans shall ensure that field changes are in compliance with the requirements of this variance.

x) Operational procedures described in the California Environmental Quality Act (CEQA) Special Initial Study shall be followed by Caltrans for activities conducted under this variance.

y) Caltrans shall implement appropriate health and safety procedures to protect its employees and the public, and to prevent or minimize exposure to potentially hazardous wastes. A project-specific health and safety plan must be prepared and implemented. The monitoring and exposure standards shall be based on construction standards for exposure to lead in California Code of Regulations, title 8, section 1532.1.

z) Caltrans shall provide a district Coordinator for this variance. This Coordinator will be the primary point of contact for information flowing to, or received from, DTSC regarding any matter or submission under this variance. Caltrans shall promptly notify DTSC of the name of Coordinator and any change in the Coordinator.

aa) Caltrans shall conduct regular inspections, consistent with Caltrans' Maintenance Division's current Pavement Inspection and Slope Inspection programs, of the locations where lead-contaminated soil has been buried and/or covered pursuant to this variance. If site inspection reveals deterioration of cover so that conditions in the variance are not met, Caltrans shall repair or replace the cover.

bb) Caltrans shall develop and implement a record keeping mechanisms to record and retain permanent records of all locations where lead-contaminated soil has been buried per this variance. The records shall be made available to DTSC.

cc) If areas subject to the terms of this variance are sold, relinquished or abandoned (including roadways), all future property owners shall be notified in writing in advance by Caltrans of the requirements of this variance, and Caltrans shall provide the owner with a copy of the variance. A copy of such a notice shall be sent to DTSC and contain the corridor location and project. Caltrans shall also disclose to DTSC and the new owner the location of areas where lead-contaminated soil has been buried. Future property owners shall be subject to the same requirements as Caltrans.

dd) For the purposes of informing the public about instances where the variance is implemented, Caltrans shall:

1. maintain current fact sheets at all Caltrans resident engineer offices and the Caltrans District office. Caltrans shall make the fact sheets available to anyone expressing an interest in variance-related work.
2. maintain a binder(s) containing copies of all reports submitted to DTSC at the District office. Caltrans shall ensure that the binders are readily accessible to the public.
3. carry out the following actions when it identifies additional projects:
 - (A) notify the public via a display advertisement in a newspaper of general circulation in that area.
 - (B) update and distribute the fact sheet to the mailing list and repository locations.

ee) Lead-contaminated soil may be buried only in areas where access is limited or where lead-contaminated soil is covered and contained by a pavement structure.

ff) Dust containing lead-contaminated soil must be controlled. Water or dust palliative may be applied to control dust. If visible dust migration occurs, all excavation, stockpiling and truck loading and burying must be stopped. The granting of this variance confers no relief on Caltrans from compliance with the laws, regulations and requirements enforced by any local air district or the California Air Resources Board.

gg) Sampling and analysis is required to show the lead-contaminated soil meets the variance criteria. All sampling and analysis must be conducted in accordance with the appropriate methods specified in U.S. EPA SW-846.

hh) DTSC retains the right to require Caltrans or any future owner to remove, and properly dispose of, lead-contaminated soil in the event DTSC determines it is necessary for protection of public health, safety or the environment.

ii) DTSC finds that some projects involving lead-contaminated soil are joint projects between Caltrans and other government entities. In these joint projects, Caltrans may not be the lead agency implementing the project although Caltrans is still involved if the project occurs on its right-of-way.

Caltrans may invoke this variance for joint projects where Caltrans and local government entity are involved provided that 1) the project is within the Caltrans Right-of-Way; 2) Caltrans reviews/ oversees all phases of the project including design, contracting, environmental assessment, construction, operation, and maintenance; and 3) Caltrans oversees the project to verify all variance conditions are complied with. Caltrans will be fully responsible for the variance notification and implementation in these joint projects.

jj) All correspondence shall be directed to the following office:

Hazardous Waste Permitting
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, CA 95826

Attn: Caltrans Lead Variance Notification Unit

10. DISCLAIMER.

a) The issuance of this variance does not relieve Caltrans of the responsibility for compliance with Health and Safety Code, chapter 6.5, or the regulations adopted thereunder, and any other laws and regulations other than those specifically identified in Section 8 of this variance. Caltrans is subject to all terms and conditions herein. The granting of this variance confers no relief from compliance with any federal, State or local requirements other than those specifically provided herein.

b) The issuance of this variance does not release Caltrans from any liability associated with the handling of hazardous waste, except as specifically provided herein and subject to all terms and conditions of this variance.

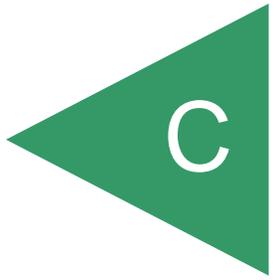
11. VARIANCE MODIFICATION OR REVOCATION. This variance is subject to review at the discretion of DTSC and may be modified or revoked by DTSC upon change of ownership and at any other time pursuant to Health and Safety Code, section 25143.
12. CEQA DETERMINATION. DTSC adopted a Negative Declaration on June 30, 2009.

Approved:

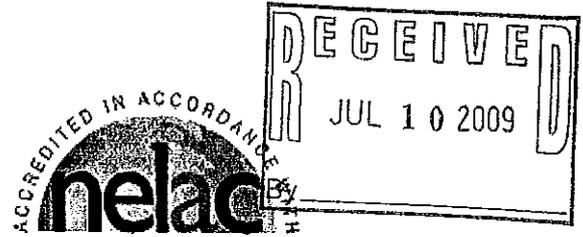
6/30/09
Date

Beverly Rikala
Beverly Rikala
Operating Facilities Team
Department of Toxic Substances Control

APPENDIX



June 30, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106074

RE: I-5 No. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 23, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie F. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: I-5 No. Stockton, E8477-06-01
Lab Order: 106074

CASE NARRATIVE

Analytical Comments for Method 6010

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 106074-020AMS, 106074-021AMS; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Duplicate (DUP) and/or Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for samples 106074-010ADUP, 106074-020AMSD, 106074-021ADUP, 106074-021AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for Method 8015 (DRO/ORO)

Dilution was necessary for samples 106074-001A, 106074-002A, 106074-003A, 106074-005A, 106074-006A, 106074-007A, 106074-008A, 106074-010A, 106074-011A, 106074-012A, 106074-013A, 106074-015A, 106074-016A, 106074-019A, 106074-020A and 106074-021A, due to sample matrix.

Surrogate recovery was diluted out for samples 106074-001A, 106074-001ADUP, 106074-001AMS, 106074-001AMSD, 106074-002A, 106074-003A, 106074-005A, 106074-006A, 106074-007A, 106074-008A, 106074-010A, 106074-010AMS, 106074-010AMSD, 106074-012A, 106074-015A, 106074-015ADUP, 106074-016A, 106074-019A, 106074-020A and 106074-021A.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 106074-010AMS, 106074-010AMSD, 106074-015AMS, 106074-015AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Duplicate (DUP) and/or Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for samples 106074-001ADUP, 106074-010ADUP, 106074-010AMSD, 106074-015ADUP and 106074-015AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for Method 8015 (GRO)

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for sample 106074-032AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.

Client Sample ID: WB1-0

Lab Order: 106074

Collection Date: 6/22/2009 9:41:00 AM

Project: I-5 No. Stockton, E8477-06-01

Matrix: SOIL

Lab ID: 106074-001A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP8_090625D	QC Batch:	56148	PrepDate:	6/24/2009	Analyst:	IL
Antimony	ND	2.0	mg/Kg	1	6/25/2009 04:08 PM		
Arsenic	4.0	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Barium	210	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Beryllium	ND	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Cadmium	1.1	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Chromium	33	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Cobalt	9.5	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Copper	48	2.0	mg/Kg	1	6/25/2009 04:08 PM		
Lead	94	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Molybdenum	2.8	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Nickel	37	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Selenium	ND	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Silver	ND	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Thallium	ND	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Vanadium	36	1.0	mg/Kg	1	6/25/2009 04:08 PM		
Zinc	230	1.0	mg/Kg	1	6/25/2009 04:08 PM		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID:	GC16_090626D	QC Batch:	56152	PrepDate:	6/24/2009	Analyst:	CBR
DRO	140	40	mg/Kg	20	6/26/2009 09:11 PM		
ORO	770	40	mg/Kg	20	6/26/2009 09:11 PM		
Surr: p-Terphenyl	0	30-130	SDO %REC	20	6/26/2009 09:11 PM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA5_090625B	QC Batch:	56140	PrepDate:	6/24/2009	Analyst:	IL
Mercury	0.11	0.10	mg/Kg	1	6/25/2009 04:58 PM		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.

Client Sample ID: WB2-0

Lab Order: 106074

Collection Date: 6/22/2009 9:50:00 AM

Project: I-5 No. Stockton, E8477-06-01

Matrix: SOIL

Lab ID: 106074-002A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP8_090625D	QC Batch:	56148	PrepDate:	6/24/2009	Analyst:	IL
Antimony	ND	2.0	mg/Kg	1	6/25/2009 04:11 PM		
Arsenic	3.4	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Barium	100	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Beryllium	ND	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Cadmium	ND	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Chromium	38	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Cobalt	9.9	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Copper	22	2.0	mg/Kg	1	6/25/2009 04:11 PM		
Lead	21	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Molybdenum	ND	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Nickel	48	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Selenium	ND	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Silver	ND	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Thallium	ND	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Vanadium	39	1.0	mg/Kg	1	6/25/2009 04:11 PM		
Zinc	110	1.0	mg/Kg	1	6/25/2009 04:11 PM		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID:	GC16_090626D	QC Batch:	56152	PrepDate:	6/24/2009	Analyst:	CBR
DRO	80	40	mg/Kg	20	6/26/2009 08:34 PM		
ORO	560	40	mg/Kg	20	6/26/2009 08:34 PM		
Surr: p-Terphenyl	0	30-130	SDO %REC	20	6/26/2009 08:34 PM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA5_090625B	QC Batch:	56140	PrepDate:	6/24/2009	Analyst:	IL
Mercury	ND	0.10	mg/Kg	1	6/25/2009 05:00 PM		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT:	Geocon Consultants, Inc.	Client Sample ID:	WB3-0
Lab Order:	106074	Collection Date:	6/22/2009 10:27:00 AM
Project:	I-5 No. Stockton, E8477-06-01	Matrix:	SOIL
Lab ID:	106074-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B		EPA 6010B				
RunID: ICP8_090625D	QC Batch: 56148	PrepDate:	6/24/2009	Analyst:	IL	
Antimony	ND	2.0		mg/Kg	1	6/25/2009 04:14 PM
Arsenic	5.1	1.0		mg/Kg	1	6/25/2009 04:14 PM
Barium	160	1.0		mg/Kg	1	6/25/2009 04:14 PM
Beryllium	ND	1.0		mg/Kg	1	6/25/2009 04:14 PM
Cadmium	ND	1.0		mg/Kg	1	6/25/2009 04:14 PM
Chromium	42	1.0		mg/Kg	1	6/25/2009 04:14 PM
Cobalt	10	1.0		mg/Kg	1	6/25/2009 04:14 PM
Copper	38	2.0		mg/Kg	1	6/25/2009 04:14 PM
Lead	120	1.0		mg/Kg	1	6/25/2009 04:14 PM
Molybdenum	1.2	1.0		mg/Kg	1	6/25/2009 04:14 PM
Nickel	47	1.0		mg/Kg	1	6/25/2009 04:14 PM
Selenium	ND	1.0		mg/Kg	1	6/25/2009 04:14 PM
Silver	ND	1.0		mg/Kg	1	6/25/2009 04:14 PM
Thallium	ND	1.0		mg/Kg	1	6/25/2009 04:14 PM
Vanadium	43	1.0		mg/Kg	1	6/25/2009 04:14 PM
Zinc	140	1.0		mg/Kg	1	6/25/2009 04:14 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B		EPA 8015B(M)				
RunID: GC16_090626D	QC Batch: 56152	PrepDate:	6/24/2009	Analyst:	CBR	
DRO	30	10		mg/Kg	10	6/26/2009 08:43 PM
ORO	170	10		mg/Kg	10	6/26/2009 08:43 PM
Surr: p-Terphenyl	0	30-130	SDO	%REC	10	6/26/2009 08:43 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A						
RunID: AA5_090625B	QC Batch: 56140	PrepDate:	6/24/2009	Analyst:	IL	
Mercury	0.12	0.10		mg/Kg	1	6/25/2009 05:02 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.

Client Sample ID: WB4-0

Lab Order: 106074

Collection Date: 6/22/2009 10:23:00 AM

Project: I-5 No. Stockton, E8477-06-01

Matrix: SOIL

Lab ID: 106074-004A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP8_090625D	QC Batch:	56148	PrepDate:	6/24/2009	Analyst:	IL
Antimony	ND	2.0	mg/Kg	1	6/25/2009 04:16 PM		
Arsenic	5.4	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Barium	110	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Beryllium	ND	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Cadmium	ND	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Chromium	46	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Cobalt	12	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Copper	29	2.0	mg/Kg	1	6/25/2009 04:16 PM		
Lead	94	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Molybdenum	ND	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Nickel	62	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Selenium	ND	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Silver	ND	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Thallium	ND	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Vanadium	48	1.0	mg/Kg	1	6/25/2009 04:16 PM		
Zinc	87	1.0	mg/Kg	1	6/25/2009 04:16 PM		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID:	GC16_090626E	QC Batch:	56145	PrepDate:	6/24/2009	Analyst:	CBR
DRO	9.3	1.0	mg/Kg	1	6/29/2009 03:19 PM		
ORO	41	1.0	mg/Kg	1	6/29/2009 03:19 PM		
Surr: p-Terphenyl	109	30-130	%REC	1	6/29/2009 03:19 PM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA5_090625B	QC Batch:	56140	PrepDate:	6/24/2009	Analyst:	IL
Mercury	0.12	0.10	mg/Kg	1	6/25/2009 05:04 PM		

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - S Spike: Surrogate outside of limits due to matrix interference
 - Results are wet unless otherwise specified
 - DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT:	Geocon Consultants, Inc.	Client Sample ID:	WB5-0
Lab Order:	106074	Collection Date:	6/22/2009 11:20:00 AM
Project:	I-5 No. Stockton, E8477-06-01	Matrix:	SOIL
Lab ID:	106074-005A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_090625D	QC Batch: 56148	PrepDate: 6/24/2009	Analyst: IL
Antimony	ND	2.0	mg/Kg 1 6/25/2009 04:27 PM
Arsenic	3.1	1.0	mg/Kg 1 6/25/2009 04:27 PM
Barium	110	1.0	mg/Kg 1 6/25/2009 04:27 PM
Beryllium	ND	1.0	mg/Kg 1 6/25/2009 04:27 PM
Cadmium	ND	1.0	mg/Kg 1 6/25/2009 04:27 PM
Chromium	18	1.0	mg/Kg 1 6/25/2009 04:27 PM
Cobalt	6.3	1.0	mg/Kg 1 6/25/2009 04:27 PM
Copper	17	2.0	mg/Kg 1 6/25/2009 04:27 PM
Lead	8.3	1.0	mg/Kg 1 6/25/2009 04:27 PM
Molybdenum	ND	1.0	mg/Kg 1 6/25/2009 04:27 PM
Nickel	18	1.0	mg/Kg 1 6/25/2009 04:27 PM
Selenium	ND	1.0	mg/Kg 1 6/25/2009 04:27 PM
Silver	ND	1.0	mg/Kg 1 6/25/2009 04:27 PM
Thallium	ND	1.0	mg/Kg 1 6/25/2009 04:27 PM
Vanadium	45	1.0	mg/Kg 1 6/25/2009 04:27 PM
Zinc	69	1.0	mg/Kg 1 6/25/2009 04:27 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID: GC16_090626E	QC Batch: 56145	PrepDate: 6/24/2009	Analyst: CBR
DRO	10	10	mg/Kg 10 6/26/2009 10:27 PM
ORO	64	10	mg/Kg 10 6/26/2009 10:27 PM
Surr: p-Terphenyl	0	30-130	SDO %REC 10 6/26/2009 10:27 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID: AA5_090625B	QC Batch: 56140	PrepDate: 6/24/2009	Analyst: IL
Mercury	ND	0.10	mg/Kg 1 6/25/2009 05:06 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike-Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. Client Sample ID: WB6-0
 Lab Order: 106074 Collection Date: 6/22/2009 11:42:00 AM
 Project: I-5 No. Stockton, E8477-06-01 Matrix: SOIL
 Lab ID: 106074-006A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B		EPA 6010B			
RunID: ICP8_090625D	QC Batch: 56148				PrepDate: 6/24/2009	Analyst: IL
Antimony	ND	2.0		mg/Kg	1	6/25/2009 04:30 PM
Arsenic	3.8	1.0		mg/Kg	1	6/25/2009 04:30 PM
Barium	120	1.0		mg/Kg	1	6/25/2009 04:30 PM
Beryllium	ND	1.0		mg/Kg	1	6/25/2009 04:30 PM
Cadmium	ND	1.0		mg/Kg	1	6/25/2009 04:30 PM
Chromium	37	1.0		mg/Kg	1	6/25/2009 04:30 PM
Cobalt	9.1	1.0		mg/Kg	1	6/25/2009 04:30 PM
Copper	24	2.0		mg/Kg	1	6/25/2009 04:30 PM
Lead	87	1.0		mg/Kg	1	6/25/2009 04:30 PM
Molybdenum	ND	1.0		mg/Kg	1	6/25/2009 04:30 PM
Nickel	44	1.0		mg/Kg	1	6/25/2009 04:30 PM
Selenium	ND	1.0		mg/Kg	1	6/25/2009 04:30 PM
Silver	ND	1.0		mg/Kg	1	6/25/2009 04:30 PM
Thallium	ND	1.0		mg/Kg	1	6/25/2009 04:30 PM
Vanadium	37	1.0		mg/Kg	1	6/25/2009 04:30 PM
Zinc	100	1.0		mg/Kg	1	6/25/2009 04:30 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

	EPA 3550B		EPA 8015B(M)			
RunID: GC16_090626E	QC Batch: 56145				PrepDate: 6/24/2009	Analyst: CBR
DRO	21	10		mg/Kg	10	6/26/2009 11:04 PM
ORO	110	10		mg/Kg	10	6/26/2009 11:04 PM
Surr: p-Terphenyl	0	30-130	SDO	%REC	10	6/26/2009 11:04 PM

MERCURY BY COLD VAPOR TECHNIQUE

	EPA 7471A					
RunID: AA5_090625B	QC Batch: 56140				PrepDate: 6/24/2009	Analyst: IL
Mercury	ND	0.10		mg/Kg	1	6/25/2009 05:08 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
- Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. **Client Sample ID:** WB7-0
Lab Order: 106074 **Collection Date:** 6/22/2009 11:39:00 AM
Project: I-5 No. Stockton, E8477-06-01 **Matrix:** SOIL
Lab ID: 106074-007A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_090625D	QC Batch: 56148	PrepDate: 6/24/2009	Analyst: IL		
Antimony	ND	2.0	mg/Kg	1	6/25/2009 04:32 PM
Arsenic	3.1	1.0	mg/Kg	1	6/25/2009 04:32 PM
Barium	250	1.0	mg/Kg	1	6/25/2009 04:32 PM
Beryllium	ND	1.0	mg/Kg	1	6/25/2009 04:32 PM
Cadmium	1.4	1.0	mg/Kg	1	6/25/2009 04:32 PM
Chromium	27	1.0	mg/Kg	1	6/25/2009 04:32 PM
Cobalt	17	1.0	mg/Kg	1	6/25/2009 04:32 PM
Copper	25	2.0	mg/Kg	1	6/25/2009 04:32 PM
Lead	91	1.0	mg/Kg	1	6/25/2009 04:32 PM
Molybdenum	1.3	1.0	mg/Kg	1	6/25/2009 04:32 PM
Nickel	33	1.0	mg/Kg	1	6/25/2009 04:32 PM
Selenium	ND	1.0	mg/Kg	1	6/25/2009 04:32 PM
Silver	ND	1.0	mg/Kg	1	6/25/2009 04:32 PM
Thallium	ND	1.0	mg/Kg	1	6/25/2009 04:32 PM
Vanadium	30	1.0	mg/Kg	1	6/25/2009 04:32 PM
Zinc	740	1.0	mg/Kg	1	6/25/2009 04:32 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID: GC16_090626E	QC Batch: 56145	PrepDate: 6/24/2009	Analyst: CBR		
DRO	40	10	mg/Kg	10	6/26/2009 11:13 PM
ORO	270	10	mg/Kg	10	6/26/2009 11:13 PM
Surr: p-Terphenyl	0	30-130	%REC	10	6/26/2009 11:13 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID: AA5_090625B	QC Batch: 56140	PrepDate: 6/24/2009	Analyst: IL		
Mercury	ND	0.10	mg/Kg	1	6/25/2009 06:10 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. Client Sample ID: WB8-0
 Lab Order: 106074 Collection Date: 6/22/2009 12:11:00 PM
 Project: I-5 No. Stockton, E8477-06-01 Matrix: SOIL
 Lab ID: 106074-008A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

		EPA 3050B		EPA 6010B		
RunID:	ICP8_090625D	QC Batch:	56148	PrepDate:	6/24/2009	Analyst: IL
Antimony	ND	2.0	mg/Kg	1	6/25/2009 04:36 PM	
Arsenic	3.3	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Barium	79	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Beryllium	ND	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Cadmium	ND	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Chromium	39	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Cobalt	9.0	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Copper	16	2.0	mg/Kg	1	6/25/2009 04:36 PM	
Lead	27	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Molybdenum	ND	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Nickel	46	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Selenium	ND	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Silver	ND	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Thallium	ND	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Vanadium	39	1.0	mg/Kg	1	6/25/2009 04:36 PM	
Zinc	43	1.0	mg/Kg	1	6/25/2009 04:36 PM	

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

		EPA 3550B		EPA 8015B(M)		
RunID:	GC16_090626E	QC Batch:	56145	PrepDate:	6/24/2009	Analyst: CBR
DRO	56	10	mg/Kg	10	6/26/2009 11:22 PM	
ORO	280	10	mg/Kg	10	6/26/2009 11:22 PM	
Surr: p-Terphenyl	0	30-130	SDO %REC	10	6/26/2009 11:22 PM	

MERCURY BY COLD VAPOR TECHNIQUE

		EPA 7471A				
RunID:	AA5_090625B	QC Batch:	56140	PrepDate:	6/24/2009	Analyst: IL
Mercury	ND	0.10	mg/Kg	1	6/25/2009 05:12 PM	

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. **Client Sample ID:** WB9-0
Lab Order: 106074 **Collection Date:** 6/22/2009 12:09:00 PM
Project: I-5 No. Stockton, E8477-06-01 **Matrix:** SOIL
Lab ID: 106074-009A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP8_090625D	QC Batch:	56148	PrepDate:	6/24/2009	Analyst:	IL
Antimony	ND	2.0	mg/Kg	1	6/25/2009 04:38 PM		
Arsenic	3.4	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Barium	82	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Beryllium	ND	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Cadmium	ND	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Chromium	43	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Cobalt	9.7	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Copper	18	2.0	mg/Kg	1	6/25/2009 04:38 PM		
Lead	16	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Molybdenum	ND	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Nickel	48	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Selenium	ND	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Silver	ND	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Thallium	ND	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Vanadium	41	1.0	mg/Kg	1	6/25/2009 04:38 PM		
Zinc	50	1.0	mg/Kg	1	6/25/2009 04:38 PM		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID:	GC16_090626E	QC Batch:	56145	PrepDate:	6/24/2009	Analyst:	CBR
DRO	9.4	1.0	mg/Kg	1	6/29/2009 03:31 PM		
ORO	44	1.0	mg/Kg	1	6/29/2009 03:31 PM		
Surr: p-Terphenyl	88.2	30-130	%REC	1	6/29/2009 03:31 PM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA5_090625B	QC Batch:	56140	PrepDate:	6/24/2009	Analyst:	IL
Mercury	ND	0.10	mg/Kg	1	6/25/2009 05:14 PM		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. Client Sample ID: WB10-0
 Lab Order: 106074 Collr Date: 6/22/2009 12:44:00 PM
 Project: I-5 No. Stockton, E8477-06-01 SOIL
 Lab ID: 106074-010A

Analyses	Result	Pr	DE	Date Analyzed
ICP METALS				
	EPA 3050B		A 6010B	
RunID: ICP8_090625D	QC Batch:		PrepDate:	6/24/2009
Antimony			mg/Kg	1
Arsenic			mg/Kg	1
Barium		J	mg/Kg	1
Beryllium	1.0		mg/Kg	1
Cadmium	1.0		mg/Kg	1
Chromium	1.0		mg/Kg	1
Cobalt	1.0		mg/Kg	1
Copper	2.0		mg/Kg	1
Lead	5		mg/Kg	1
Molybdenum	ND	1.0	mg/Kg	1
Nickel	19	1.0	mg/Kg	1
Selenium	ND	1.0	mg/Kg	1
Silver	ND	1.0	mg/Kg	1
Thallium	ND	1.0	mg/Kg	1
Vanadium	20	1.0	mg/Kg	1
Zinc	110	1.0	mg/Kg	1

DIESEL & PAH	ORGANICS BY GC/FID	EPA 3550B	PrepDate:	Analyst:
RunID:	QC Batch: 56145		6/24/2009	CBR
D	100	mg/Kg	20	6/27/2009 12:06 AM
	790	ng/Kg	20	6/27/2009 12:06 AM
		%REC	20	6/27/2009 12:06 AM

SOIL VAPOR TECHNIQUE	EPA 7471A	PrepDate:	Analyst:
RunID: 15_090625B	QC B:	6/24/2009	IL
y	0.10	mg/Kg	1
			6/25/2009 04:50 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. Client S 0
 Lab Order: 106074 Col' 2009 12:51:00 PM
 Project: I-5 No. Stockton, E8477-06-01 JIL
 Lab ID: 106074-011A

Analyses Result DF Date Analy

ICP METALS

RunID:	EPA 3050B	QC Batch:	PrepDate:	6/24/2009
Antimony			mg/Kg	1 M
Arsenic			mg/Kg	1 3 PM
Barium	1.0		mg/Kg	1 18 PM
Beryllium	1.0		mg/Kg	1 05:18 PM
Cadmium	1.0		mg/Kg	1 09 05:18 PM
Chromium	1.0		mg/Kg	1 2009 05:18 PM
Cobalt	1.0		mg/Kg	1 5/2009 05:18 PM
Copper	2	2	mg/Kg	1 5/25/2009 05:18 PM
Lead	100	1.0	mg/Kg	1 6/25/2009 05:18 PM
Molybdenum	ND	1.0	mg/Kg	1 6/25/2009 05:18 PM
Nickel	23	1.0	mg/Kg	1 6/25/2009 05:18 PM
Selenium	ND	1.0	mg	1 6/25/2009 05:18 PM
Silver	ND	1.0	mg	1 6/25/2009 05:18 PM
Thallium	ND	1.0	mg	1 6/25/2009 05:18 PM
Vanadium	4	1.0	mg	1 6/25/2009 05:18 PM
Zinc	350	1.0	mg	1 6/25/2009 05:18 PM

DIESEL ENGINE ORGANICS BY GC/FID

RunID:	EPA 3550F	QC Batch:	PrepDate:	6/24/2009	Analyst: CBR
43			µg/Kg	10	6/26/2009 11:31 PM
200			µg/Kg	10	6/26/2009 11:31 PM
116			%REC	10	6/26/2009 11:31 PM

BY COLD VAPOR TECHNIQUE

RunID:	EPA 7471A	QC Batch:	PrepDate:	6/24/2009	Analyst: IL
AA5_090625D			mg/Kg	1	6/25/2009 05:38 PM
mercury	0.10		mg/Kg	1	6/25/2009 05:38 PM

- Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. ID: WB12-0
 Lab Order: 106074 Date: 6/22/2009 1:15:00 PM
 Project: I-5 No. Stockton, E8477-06-01 Matrix: SOIL
 Lab ID: 106074-012A

Analyses Resr Qual Units DF Date Analyzed

ICP METALS

RunID	EPA 305F	QC	EPA 6010B	PrepDate	Date Analyzed
ICP8_090625E				6/24/2009	6/25/2009 05:21 PM
Antimony	2.0		mg/Kg	1	6/25/2009 05:21 PM
Arsenic	1.0		mg/Kg	1	6/25/2009 05:21 PM
Barium	1.0		mg/Kg	1	6/25/2009 05:21 PM
Beryllium	1.0		mg/Kg	1	6/25/2009 05:21 PM
Cadmium	1.0		mg/Kg	1	6/25/2009 05:21 PM
Chromium	1.0		mg/Kg	1	6/25/2009 05:21 PM
Cobalt	1.0		mg/Kg	1	6/25/2009 05:21 PM
Copper	2.0		mg/Kg	1	6/25/2009 05:21 PM
Lead	1.0		mg/Kg	1	6/25/2009 05:21 PM
Molybdenum	1.0		mg/Kg	1	6/25/2009 05:21 PM
Nickel	1.0		mg/Kg	1	6/25/2009 05:21 PM
Selenium	1.0		mg/Kg	1	6/25/2009 05:21 PM
Silver	1.0		mg/Kg	1	6/25/2009 05:21 PM
Thallium	1.0		mg/Kg	1	6/25/2009 05:21 PM
Vanadium	1.0		mg/Kg	1	6/25/2009 05:21 PM
Zinc	1.0		mg/Kg	1	6/25/2009 05:21 PM

WATER RANGE ORGANICS BY GC/FID

RunID	EPA 3550B	QC Batch	EPA 8210	PrepDate	Date Analyzed
ICP8_090626E		56145		6/24/2009	6/27/2009 12:15 AM
1,2-Dichloroethane	40		mg/L	20	6/27/2009 12:15 AM
1,1-Dichloroethene	40		mg/L	20	6/27/2009 12:15 AM
1,1,1-Trichloroethane	30-1		mg/L	20	6/27/2009 12:15 AM

MERCURY BY COLD VAPOR TECHNIQUE

RunID	EPA 7471A	QC Batch	PrepDate	Date Analyzed	
AA5_090625D		561	6/24/2009	6/25/2009 05:40 PM	
Mercury	ND		mg/Kg	1	6/25/2009 05:40 PM

Qualifiers: B Analyte detected in blank
 H Holding times for precision exceeded
 S Spike/Surrogate outside of 10% to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
 Lab Order: 106074
 Project: I-5 No. Stockton, E8477-06-01
 Lab ID: 106074-013A

Job: WB13-0
 Date: 6/22/2009 1:21:00 PM
 Matrix: SOIL

Analyses	Result	Units	DF	Date Analyzed
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ICP METALS

RunID:	EPA 3050P	EPA 8010B	PrepDate:	Analyst:
ICP8_090625E	QC P		6/24/2009	IL
Antimony	2.0	mg/Kg	1	6/25/2009 05:23 PM
Arsenic	1.0	mg/Kg	1	6/25/2009 05:23 PM
Barium	1.0	mg/Kg	1	6/25/2009 05:23 PM
Beryllium	1.0	mg/Kg	1	6/25/2009 05:23 PM
Cadmium	ND	mg/Kg	1	6/25/2009 05:23 PM
Chromium	26	mg/Kg	1	6/25/2009 05:23 PM
Cobalt	7.8	mg/Kg	1	6/25/2009 05:23 PM
Copper	23	mg/Kg	1	6/25/2009 05:23 PM
Lead	12	mg/Kg	1	6/25/2009 05:23 PM
Molybdenum	ND	mg/Kg	1	6/25/2009 05:23 PM
Nickel	27	mg/Kg	1	6/25/2009 05:23 PM
Selenium	ND	mg/Kg	1	6/25/2009 05:23 PM
Silver	ND	mg/Kg	1	6/25/2009 05:23 PM
Thallium	ND	mg/Kg	1	6/25/2009 05:23 PM
Vanadium	46	mg/Kg	1	6/25/2009 05:23 PM
Zinc	79	mg/Kg	1	6/25/2009 05:23 PM

DIEL RANGE ORGANICS BY GC/FID

RunID:	EPA 8550B	PrepDate:	Analyst:
ICP8_090625E	QC Batch: 56145	6/24/2009	CBR
	11	5	6/29/2009 04:00 PM
	65	5	6/29/2009 04:00 PM
1,2,4-Terphenyl	64.8	5	6/29/2009 04:00 PM

MERCURY BY COLD VAPOUR TECHNIQUE

RunID:	QC Batch:	PrepDate:	Analyst:
AA5_090625D		6/24/2009	IL
Mercury		1	6/25/2009 05:42 PM

Qualifiers: B Analyte Blank Method Blank
 H Holdup or analysis exceeded
 S Spike limits due to matrix interference
 DO Surrogate
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. : WB14-0
 Lab Order: 106074 Date: 6/22/2009 1:30:00 PM
 Project: I-5 No. Stockton, E8477-06-01 Matrix: SOIL
 Lab ID: 106074-014A

Analyses Result Method Units DF Date Analyzed

ICP METALS

RunID	Method	Result	Units	DF	Date Analyzed
ICP8_090625E	EPA 3050B	QC Batch: 56144			PrepDate: 6/24/2009
Antimony		2.0	mg/Kg	1	6/25/2009 05:26 PM
Arsenic		1.0	mg/Kg	1	6/25/2009 05:26 PM
Barium		1.0	mg/Kg	1	6/25/2009 05:26 PM
Beryllium		1.0	mg/Kg	1	6/25/2009 05:26 PM
Cadmium		ND	mg/Kg	1	6/25/2009 05:26 PM
Chromium		20	mg/Kg	1	6/25/2009 05:26 PM
Cobalt		6.9	mg/Kg	1	6/25/2009 05:26 PM
Copper		25	mg/Kg	1	6/25/2009 05:26 PM
Lead		31	mg/Kg	1	6/25/2009 05:26 PM
Molybdenum		ND	mg/Kg	1	6/25/2009 05:26 PM
Nickel		20	mg/Kg	1	6/25/2009 05:26 PM
Selenium		ND	mg/Kg	1	6/25/2009 05:26 PM
Silver		ND	mg/Kg	1	6/25/2009 05:26 PM
Thallium		ND	mg/Kg	1	6/25/2009 05:26 PM
Vanadium		43	mg/Kg	1	6/25/2009 05:26 PM
Zinc		110	mg/Kg	1	6/25/2009 05:26 PM

DIF MULTIRANGE ORGANICS BY GC/FID
EPA 3550B

RunID	Method	Result	Units	DF	Date Analyzed
AA5_090626F	QC Batch: 56144				PrepDate: 6/24/2009 Analyst: CBR
		38	µg	1	6/29/2009 04:31 PM
		130	µg	1	6/29/2009 04:31 PM
p-Terphenyl		83.1	µg	1	6/29/2009 04:31 PM

MERCURY BY COLD VAPOR TECHNIQUE

RunID	Method	Result	Units	DF	Date Analyzed
AA5_090625D	QC Batch: 56144				PrepDate: 6/24/2009 Analyst: IL
Mercury		ND	mg/Kg	1	6/25/2009 05:48 PM

Qualifiers: B Analyte detected
 H Holding time
 S Spike/Surrogate
 DO Surrogate Dilution
 Method Blank
 Analysis exceeded
 Results due to matrix interference
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
Lab Order: 106074
Project: I-5 No. Stockton, E8477-06-01
Lab ID: 106074-015A

Client Sample ID: WB15-0
Collection Date: 6/22/2009 1:44:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP8_090625E	QC Batch:	56149	PrepDate:	6/24/2009	Analyst:	IL
Antimony	ND	2.0	mg/Kg	1	6/25/2009 05:29 PM		
Arsenic	2.2	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Barium	88	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Beryllium	ND	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Cadmium	ND	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Chromium	21	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Cobalt	6.4	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Copper	15	2.0	mg/Kg	1	6/25/2009 05:29 PM		
Lead	31	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Molybdenum	ND	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Nickel	27	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Selenium	ND	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Silver	ND	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Thallium	ND	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Vanadium	33	1.0	mg/Kg	1	6/25/2009 05:29 PM		
Zinc	57	1.0	mg/Kg	1	6/25/2009 05:29 PM		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID:	GC16_090626F	QC Batch:	56144	PrepDate:	6/24/2009	Analyst:	CBR
DRO	200	20	mg/Kg	10	6/29/2009 04:49 PM		
ORO	1200	20	mg/Kg	10	6/29/2009 04:49 PM		
Surr: p-Terphenyl	0	30-130	SDO %REC	10	6/29/2009 04:49 PM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA5_090625D	QC Batch:	56141	PrepDate:	6/24/2009	Analyst:	IL
Mercury	ND	0.10	mg/Kg	1	6/25/2009 05:50 PM		

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
Lab Order: 106074
Project: I-5 No. Stockton, E8477-06-01
Lab ID: 106074-016A

Client Sample ID: WB16-0
Collection Date: 6/22/2009 1:48:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP8_090625E	QC Batch:	56149	PrepDate:	6/24/2009	Analyst:	IL
Antimony	ND	2.0	mg/Kg	1	6/25/2009 05:32 PM		
Arsenic	4.1	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Barium	110	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Beryllium	ND	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Cadmium	ND	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Chromium	37	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Cobalt	8.8	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Copper	24	2.0	mg/Kg	1	6/25/2009 05:32 PM		
Lead	98	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Molybdenum	ND	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Nickel	44	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Selenium	ND	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Silver	ND	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Thallium	ND	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Vanadium	38	1.0	mg/Kg	1	6/25/2009 05:32 PM		
Zinc	120	1.0	mg/Kg	1	6/25/2009 05:32 PM		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID:	GC16_090626F	QC Batch:	56144	PrepDate:	6/24/2009	Analyst:	CBR
DRO	150	20	mg/Kg	10	6/29/2009 04:58 PM		
ORO	870	20	mg/Kg	10	6/29/2009 04:58 PM		
Surr: p-Terphenyl	0	30-130	SDO %REC	10	6/29/2009 04:58 PM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA5_090625D	QC Batch:	56141	PrepDate:	6/24/2009	Analyst:	IL
Mercury	ND	0.10	mg/Kg	1	6/25/2009 05:52 PM		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
Lab Order: 106074
Project: I-5 No. Stockton, E8477-06-01
Lab ID: 106074-017A

Client Sample ID: WB17-0
Collection Date: 6/22/2009 2:03:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP8_090625E	QC Batch:	56149	PrepDate:	6/24/2009	Analyst:	IL
Antimony	ND	2.0	mg/Kg	1	6/25/2009 05:34 PM		
Arsenic	4.0	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Barium	65	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Beryllium	ND	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Cadmium	ND	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Chromium	39	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Cobalt	11	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Copper	16	2.0	mg/Kg	1	6/25/2009 05:34 PM		
Lead	3.9	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Molybdenum	ND	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Nickel	53	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Selenium	ND	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Silver	ND	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Thallium	ND	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Vanadium	40	1.0	mg/Kg	1	6/25/2009 05:34 PM		
Zinc	39	1.0	mg/Kg	1	6/25/2009 05:34 PM		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID:	GC16_090626F	QC Batch:	56144	PrepDate:	6/24/2009	Analyst:	CBR
DRO	4.3	1.0	mg/Kg	1	6/29/2009 04:12 PM		
ORO	16	1.0	mg/Kg	1	6/29/2009 04:12 PM		
Surr: p-Terphenyl	84.6	30-130	%REC	1	6/29/2009 04:12 PM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA5_090625D	QC Batch:	56141	PrepDate:	6/24/2009	Analyst:	IL
Mercury	ND	0.10	mg/Kg	1	6/25/2009 05:54 PM		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
Lab Order: 106074
Project: I-5 No. Stockton, E8477-06-01
Lab ID: 106074-018A

Client Sample ID: WB18-0
Collection Date: 6/22/2009 2:17:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP8_090625E	QC Batch:	56149	PrepDate:	6/24/2009	Analyst:	IL
Antimony	ND	2.0	mg/Kg	1	6/25/2009 05:37 PM		
Arsenic	2.4	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Barium	99	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Beryllium	ND	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Cadmium	ND	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Chromium	20	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Cobalt	6.3	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Copper	16	2.0	mg/Kg	1	6/25/2009 05:37 PM		
Lead	12	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Molybdenum	ND	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Nickel	22	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Selenium	ND	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Silver	ND	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Thallium	ND	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Vanadium	40	1.0	mg/Kg	1	6/25/2009 05:37 PM		
Zinc	41	1.0	mg/Kg	1	6/25/2009 05:37 PM		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID:	GC16_090626F	QC Batch:	56144	PrepDate:	6/24/2009	Analyst:	CBR
DRO	7.0	1.0	mg/Kg	1	6/29/2009 04:21 PM		
ORO	33	1.0	mg/Kg	1	6/29/2009 04:21 PM		
Surr: p-Terphenyl	70.2	30-130	%REC	1	6/29/2009 04:21 PM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA5_090625D	QC Batch:	56141	PrepDate:	6/24/2009	Analyst:	IL
Mercury	ND	0.10	mg/Kg	1	6/25/2009 05:56 PM		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
Lab Order: 106074
Project: I-5 No. Stockton, E8477-06-01
Lab ID: 106074-019A

Client Sample ID: WB19-0
Collection Date: 6/22/2009 2:18:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_090625E	QC Batch: 56149	PrepDate: 6/24/2009	Analyst: IL		
Antimony	ND	2.0	mg/Kg	1	6/25/2009 05:48 PM
Arsenic	3.3	1.0	mg/Kg	1	6/25/2009 05:48 PM
Barium	91	1.0	mg/Kg	1	6/25/2009 05:48 PM
Beryllium	ND	1.0	mg/Kg	1	6/25/2009 05:48 PM
Cadmium	ND	1.0	mg/Kg	1	6/25/2009 05:48 PM
Chromium	31	1.0	mg/Kg	1	6/25/2009 05:48 PM
Cobalt	7.3	1.0	mg/Kg	1	6/25/2009 05:48 PM
Copper	22	2.0	mg/Kg	1	6/25/2009 05:48 PM
Lead	230	1.0	mg/Kg	1	6/25/2009 05:48 PM
Molybdenum	ND	1.0	mg/Kg	1	6/25/2009 05:48 PM
Nickel	38	1.0	mg/Kg	1	6/25/2009 05:48 PM
Selenium	ND	1.0	mg/Kg	1	6/25/2009 05:48 PM
Silver	ND	1.0	mg/Kg	1	6/25/2009 05:48 PM
Thallium	ND	1.0	mg/Kg	1	6/25/2009 05:48 PM
Vanadium	33	1.0	mg/Kg	1	6/25/2009 05:48 PM
Zinc	79	1.0	mg/Kg	1	6/25/2009 05:48 PM

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID: GC16_090626F	QC Batch: 56144	PrepDate: 6/24/2009	Analyst: CBR		
DRO	65	10	mg/Kg	10	6/29/2009 04:40 PM
ORO	390	10	mg/Kg	10	6/29/2009 04:40 PM
Surr: p-Terphenyl	0	30-130	SDO %REC	10	6/29/2009 04:40 PM

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID: AA5_090625D	QC Batch: 56141	PrepDate: 6/24/2009	Analyst: IL		
Mercury	ND	0.10	mg/Kg	1	6/25/2009 05:58 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT:	Geocon Consultants, Inc.	Client Sample ID:	WB20-0
Lab Order:	106074	Collection Date:	6/22/2009 2:41:00 PM
Project:	I-5 No. Stockton, E8477-06-01	Matrix:	SOIL
Lab ID:	106074-020A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

		EPA 3050B		EPA 6010B		
RunID:	ICP8_090625E	QC Batch:	56149	PrepDate:	6/24/2009	Analyst: IL
Antimony	ND	2.0	mg/Kg	1	6/25/2009 05:51 PM	
Arsenic	3.1	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Barium	120	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Beryllium	ND	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Cadmium	ND	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Chromium	32	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Cobalt	7.2	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Copper	29	2.0	mg/Kg	1	6/25/2009 05:51 PM	
Lead	270	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Molybdenum	ND	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Nickel	36	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Selenium	ND	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Silver	ND	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Thallium	ND	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Vanadium	34	1.0	mg/Kg	1	6/25/2009 05:51 PM	
Zinc	140	1.0	mg/Kg	1	6/25/2009 05:51 PM	

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

		EPA 3550B		EPA 8015B(M)		
RunID:	GC16_090626F	QC Batch:	56144	PrepDate:	6/24/2009	Analyst: CBR
DRO	95	20	mg/Kg	10	6/29/2009 05:07 PM	
ORO	540	20	mg/Kg	10	6/29/2009 05:07 PM	
Surr: p-Terphenyl	0	30-130	SDO %REC	10	6/29/2009 05:07 PM	

MERCURY BY COLD VAPOR TECHNIQUE

		EPA 7471A				
RunID:	AA5_090625D	QC Batch:	56141	PrepDate:	6/24/2009	Analyst: IL
Mercury	ND	0.10	mg/Kg	1	6/25/2009 05:34 PM	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
Lab Order: 106074
Project: I-5 No. Stockton, E8477-06-01
Lab ID: 106074-021A

Client Sample ID: WB21-0
Collection Date: 6/22/2009 2:49:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP8_090625F	QC Batch:	56147	PrepDate:	6/24/2009	Analyst:	IL
Antimony	ND	2.0	mg/Kg	1	6/26/2009 12:12 PM		
Arsenic	3.8	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Barium	130	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Beryllium	ND	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Cadmium	ND	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Chromium	40	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Cobalt	11	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Copper	26	2.0	mg/Kg	1	6/26/2009 12:12 PM		
Lead	160	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Molybdenum	ND	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Nickel	50	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Selenium	ND	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Silver	ND	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Thallium	ND	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Vanadium	40	1.0	mg/Kg	1	6/26/2009 12:12 PM		
Zinc	130	1.0	mg/Kg	1	6/26/2009 12:12 PM		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID:	GC16_090626F	QC Batch:	56144	PrepDate:	6/24/2009	Analyst:	CBR
DRO	89	20	mg/Kg	10	6/29/2009 05:16 PM		
ORO	560	20	mg/Kg	10	6/29/2009 05:16 PM		
Surr: p-Terphenyl	0	30-130	SDO %REC	10	6/29/2009 05:16 PM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA5_090625A	QC Batch:	56139	PrepDate:	6/24/2009	Analyst:	IL
Mercury	ND	0.10	mg/Kg	1	6/25/2009 04:37 PM		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. **Client Sample ID:** WB1-4
Lab Order: 106074 **Collection Date:** 6/22/2009 9:52:00 AM
Project: I-5 No. Stockton, E8477-06-01 **Matrix:** SOIL
Lab ID: 106074-022A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624A	QC Batch: E09VS189	PrepDate:	Analyst: KHN		
GRO	ND	1.0	mg/Kg	1	6/24/2009 01:59 PM
Surr: Bromofluorobenzene (FID)	104	59-145	%REC	1	6/24/2009 01:59 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624A	QC Batch: E09VS189	PrepDate:	Analyst: KHN		
Benzene	ND	5.0	µg/Kg	1	6/24/2009 01:59 PM
Ethylbenzene	ND	5.0	µg/Kg	1	6/24/2009 01:59 PM
m,p-Xylene	ND	10	µg/Kg	1	6/24/2009 01:59 PM
Methyl tert-butyl ether	ND	5.0	µg/Kg	1	6/24/2009 01:59 PM
o-Xylene	ND	5.0	µg/Kg	1	6/24/2009 01:59 PM
Toluene	ND	5.0	µg/Kg	1	6/24/2009 01:59 PM
Surr: Bromofluorobenzene (PID)	103	65-140	%REC	1	6/24/2009 01:59 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.

Client Sample ID: WB2-4

Lab Order: 106074

Collection Date: 6/22/2009 10:05:00 AM

Project: I-5 No. Stockton, E8477-06-01

Matrix: SOIL

Lab ID: 106074-023A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624A	QC Batch: E09VS189	PrepDate:	Analyst: KHN		
GRO	ND	1.0	mg/Kg	1	6/24/2009 02:30 PM
Surr: Bromofluorobenzene (FID)	89.7	59-145	%REC	1	6/24/2009 02:30 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624A	QC Batch: E09VS189	PrepDate:	Analyst: KHN		
Benzene	ND	5.0	µg/Kg	1	6/24/2009 02:30 PM
Ethylbenzene	ND	5.0	µg/Kg	1	6/24/2009 02:30 PM
m,p-Xylene	ND	10	µg/Kg	1	6/24/2009 02:30 PM
Methyl tert-butyl ether	ND	5.0	µg/Kg	1	6/24/2009 02:30 PM
o-Xylene	ND	5.0	µg/Kg	1	6/24/2009 02:30 PM
Toluene	ND	5.0	µg/Kg	1	6/24/2009 02:30 PM
Surr: Bromofluorobenzene (PID)	88.5	65-140	%REC	1	6/24/2009 02:30 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. **Client Sample ID:** WB3-4
Lab Order: 106074 **Collection Date:** 6/22/2009 10:46:00 AM
Project: I-5 No. Stockton, E8477-06-01 **Matrix:** SOIL
Lab ID: 106074-024A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624A QC Batch: E09VS189 PrepDate: Analyst: KHN
 GRO ND 1.0 mg/Kg 1 6/24/2009 02:46 PM
 Surr: Bromofluorobenzene (FID) 109 59-145 %REC 1 6/24/2009 02:46 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624A QC Batch: E09VS189 PrepDate: Analyst: KHN
 Benzene ND 5.0 µg/Kg 1 6/24/2009 02:46 PM
 Ethylbenzene ND 5.0 µg/Kg 1 6/24/2009 02:46 PM
 m,p-Xylene ND 10 µg/Kg 1 6/24/2009 02:46 PM
 Methyl tert-butyl ether ND 5.0 µg/Kg 1 6/24/2009 02:46 PM
 o-Xylene ND 5.0 µg/Kg 1 6/24/2009 02:46 PM
 Toluene ND 5.0 µg/Kg 1 6/24/2009 02:46 PM
 Surr: Bromofluorobenzene (PID) 107 65-140 %REC 1 6/24/2009 02:46 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.

Client Sample ID: WB4-3

Lab Order: 106074

Collection Date: 6/22/2009 10:42:00 AM

Project: I-5 No. Stockton, E8477-06-01

Matrix: SOIL

Lab ID: 106074-025A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID:	QC Batch:	E09VS189	PrepDate:	Analyst: KHN	
GRO	ND	1.0	mg/Kg	1	6/24/2009 03:02 PM
Surr: Bromofluorobenzene (FID)	92.4	59-145	%REC	1	6/24/2009 03:02 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID:	QC Batch:	E09VS189	PrepDate:	Analyst: KHN	
Benzene	ND	5.0	µg/Kg	1	6/24/2009 03:02 PM
Ethylbenzene	ND	5.0	µg/Kg	1	6/24/2009 03:02 PM
m,p-Xylene	ND	10	µg/Kg	1	6/24/2009 03:02 PM
Methyl tert-butyl ether	ND	5.0	µg/Kg	1	6/24/2009 03:02 PM
o-Xylene	ND	5.0	µg/Kg	1	6/24/2009 03:02 PM
Toluene	ND	5.0	µg/Kg	1	6/24/2009 03:02 PM
Surr: Bromofluorobenzene (PID)	90.5	65-140	%REC	1	6/24/2009 03:02 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.

Client Sample ID: WB5-4

Lab Order: 106074

Collection Date: 6/22/2009 11:24:00 AM

Project: I-5 No. Stockton, E8477-06-01

Matrix: SOIL

Lab ID: 106074-026A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624A	QC Batch: E09VS189	PrepDate:	Analyst: KHN		
GRO	ND	1.0	mg/Kg	1	6/24/2009 03:17 PM
Surr: Bromofluorobenzene (FID)	105	59-145	%REC	1	6/24/2009 03:17 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624A	QC Batch: E09VS189	PrepDate:	Analyst: KHN		
Benzene	ND	5.0	µg/Kg	1	6/24/2009 03:17 PM
Ethylbenzene	ND	5.0	µg/Kg	1	6/24/2009 03:17 PM
m,p-Xylene	ND	10	µg/Kg	1	6/24/2009 03:17 PM
Methyl tert-butyl ether	ND	5.0	µg/Kg	1	6/24/2009 03:17 PM
o-Xylene	ND	5.0	µg/Kg	1	6/24/2009 03:17 PM
Toluene	ND	5.0	µg/Kg	1	6/24/2009 03:17 PM
Surr: Bromofluorobenzene (PID)	103	65-140	%REC	1	6/24/2009 03:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.

Client Sample ID: WB6-4

Lab Order: 106074

Collection Date: 6/22/2009 11:46:00 AM

Project: I-5 No. Stockton, E8477-06-01

Matrix: SOIL

Lab ID: 106074-027A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624A	QC Batch: E09VS189	PrepDate:	Analyst: KHN		
GRO	ND	1.0	mg/Kg	1	6/24/2009 03:33 PM
Surr: Bromofluorobenzene (FID)	103	59-145	%REC	1	6/24/2009 03:33 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624A	QC Batch: E09VS189	PrepDate:	Analyst: KHN		
Benzene	ND	5.0	µg/Kg	1	6/24/2009 03:33 PM
Ethylbenzene	ND	5.0	µg/Kg	1	6/24/2009 03:33 PM
m,p-Xylene	ND	10	µg/Kg	1	6/24/2009 03:33 PM
Methyl tert-butyl ether	ND	5.0	µg/Kg	1	6/24/2009 03:33 PM
o-Xylene	ND	5.0	µg/Kg	1	6/24/2009 03:33 PM
Toluene	ND	5.0	µg/Kg	1	6/24/2009 03:33 PM
Surr: Bromofluorobenzene (PID)	100	65-140	%REC	1	6/24/2009 03:33 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.

Client Sample ID: WB7-4

Lab Order: 106074

Collection Date: 6/22/2009 11:45:00 AM

Project: I-5 No. Stockton, E8477-06-01

Matrix: SOIL

Lab ID: 106074-028A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624A	QC Batch: E09VS189	PrepDate:	Analyst: KHN		
GRO	ND	1.0	mg/Kg	1	6/24/2009 03:49 PM
Surr: Bromofluorobenzene (FID)	106	59-145	%REC	1	6/24/2009 03:49 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624A	QC Batch: E09VS189	PrepDate:	Analyst: KHN		
Benzene	ND	5.0	µg/Kg	1	6/24/2009 03:49 PM
Ethylbenzene	ND	5.0	µg/Kg	1	6/24/2009 03:49 PM
m,p-Xylene	ND	10	µg/Kg	1	6/24/2009 03:49 PM
Methyl tert-butyl ether	ND	5.0	µg/Kg	1	6/24/2009 03:49 PM
o-Xylene	ND	5.0	µg/Kg	1	6/24/2009 03:49 PM
Toluene	ND	5.0	µg/Kg	1	6/24/2009 03:49 PM
Surr: Bromofluorobenzene (PID)	105	65-140	%REC	1	6/24/2009 03:49 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. **Client Sample ID:** WB8-4
Lab Order: 106074 **Collection Date:** 6/22/2009 12:16:00 PM
Project: I-5 No. Stockton, E8477-06-01 **Matrix:** SOIL
Lab ID: 106074-029A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624A	QC Batch: E09VS189			PrepDate:	Analyst: KHN	
GRO	ND	1.0		mg/Kg	1	6/24/2009 04:04 PM
Surr: Bromofluorobenzene (FID)	97.7	59-145		%REC	1	6/24/2009 04:04 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624A	QC Batch: E09VS189			PrepDate:	Analyst: KHN	
Benzene	ND	5.0		µg/Kg	1	6/24/2009 04:04 PM
Ethylbenzene	ND	5.0		µg/Kg	1	6/24/2009 04:04 PM
m,p-Xylene	ND	10		µg/Kg	1	6/24/2009 04:04 PM
Methyl tert-butyl ether	ND	5.0		µg/Kg	1	6/24/2009 04:04 PM
o-Xylene	ND	5.0		µg/Kg	1	6/24/2009 04:04 PM
Toluene	ND	5.0		µg/Kg	1	6/24/2009 04:04 PM
Surr: Bromofluorobenzene (PID)	96.4	65-140		%REC	1	6/24/2009 04:04 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.

Client Sample ID: WB9-4

Lab Order: 106074

Collection Date: 6/22/2009 12:17:00 PM

Project: I-5 No. Stockton, E8477-06-01

Matrix: SOIL

Lab ID: 106074-030A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624A	QC Batch: E09VS189			PrepDate:	Analyst: KHN	
GRO	ND	1.0		mg/Kg	1	6/24/2009 04:20 PM
Surr: Bromofluorobenzene (FID)	100	59-145		%REC	1	6/24/2009 04:20 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624A	QC Batch: E09VS189			PrepDate:	Analyst: KHN	
Benzene	ND	5.0		µg/Kg	1	6/24/2009 04:20 PM
Ethylbenzene	ND	5.0		µg/Kg	1	6/24/2009 04:20 PM
m,p-Xylene	ND	10		µg/Kg	1	6/24/2009 04:20 PM
Methyl tert-butyl ether	ND	5.0		µg/Kg	1	6/24/2009 04:20 PM
o-Xylene	ND	5.0		µg/Kg	1	6/24/2009 04:20 PM
Toluene	ND	5.0		µg/Kg	1	6/24/2009 04:20 PM
Surr: Bromofluorobenzene (PID)	98.3	65-140		%REC	1	6/24/2009 04:20 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30 Jun-09

CLIENT: Geocon Consultants, Inc.
 Lab Order: 106074
 Project: I-5 No. Stockton, E8477-06-01
 Lab ID: 106074-031A

Job ID: WB1074
 Job Date: 6/22/2009 12:55:00 PM
 Matrix: SOIL

Analyses

Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY

EPA 8015B(M)

RunID: GC2_090624A QC Batch: E09VS189 PrepDate: 6/24/2009 04:36 PM

GRO	ND	1.0	mg/Kg	1	6/24/2009 04:36 PM
Surr: Bromofluorobenz	96.1	59-145	%REC	1	6/24/2009 04:36 PM

VOLATILE ORGANICS BY

GC/PID

EPA 8021B

RunID: GC2_090624A QC Batch: E09VS189 PrepDate: 6/24/2009 04:36 PM Analyst: KHN

Benzene	ND	5.0	µg/Kg	1	6/24/2009 04:36 PM
Ethylbr	ND	5.0	µg/l	1	6/24/2009 04:36 PM
m,x	ND	10		1	6/24/2009 04:36 PM
	ND	5.0		1	6/24/2009 04:36 PM
	ND	5.0		1	6/24/2009 04:36 PM
	ND	5.0		1	6/24/2009 04:36 PM
Fluorobenzene (PIB)	94.7	65-145		1	6/24/2009 04:36 PM

PACKAGE 2 DATA

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
Lab Order: 106074
Project: I-5 No. Stockton, E8477-06-01
Lab ID: 106074-032A

Job ID: WB01-4
Print Date: 6/22/2009 12:57:00 PM
Matrix: SOIL

Analyses

GASOLINE RANGE ORGANICS BY

Qual	Units	DF	Date Analyzed
EPA 8015B(M)			
RunID: GC2_090624B	E09VS190	PrepDate:	N
GRO	ND 1.0	mg/Kg	1
Surr: Bromofluorobenz	108 59-145	%REC	1

VOLATILE ORGANIC

Qual	Units	DF	Date Analyzed
EPA 8021B			
RunID: GC2_090624B	QC Batch: E09VS190	PrepDate:	Analyst: KHN
Benzene	ND 5.0	µg/Kg	6/24/2009 06:57 PM
Ethylbe	ND 5.0	µg/Kg	6/24/2009 06:57 PM
m,p	ND 10	µg/Kg	6/24/2009 06:57 PM
n	ND 5.0	µg/Kg	6/24/2009 06:57 PM
	ND 5.0	µg/Kg	6/24/2009 06:57 PM
	ND 5.0	µg/Kg	6/24/2009 06:57 PM
Monobenzene (PID)	106 65-140		1 6/24/2009 06:57 PM

PACKAGE 2 DATA

PACKAGE 2 DATA

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
 Lab Order: 106074
 Project: I-5 No. Stockton, E8477-06-01
 Lab ID: 106074-033A

Sample ID: WB12-4
 Collection Date: 6/22/2009 1:22:00 PM
 Matrix: SOIL

Analyses µL Qual Units DF Date Analyzed

GASOLINE RANGE ORGANICS BY

RunID	GC/PID	QC Batch	Method	PrepDate	Analyst
GC2_090624B		E09VS190	EPA 8015B(M)		KHN
GRO	ND	1.0	mg/Kg	1	6/24/2009 07:28 PM
Surr: Bromofluorobenz	103	59-145	%REC	1	

VOLATILE ORGANIC

RunID	GC/PID	QC Batch	Method	PrepDate	Analyst
GC2_090624B		E09VS190	EPA 8021B		KHN
Benzene	ND	5.0	µg/Kg		6/24/2009 07:28 PM
Ethylben	ND	5.0	µg/Kg		6/24/2009 07:28 PM
m,p-X	ND	10	µg/Kg		6/24/2009 07:28 PM
Me	ND	5.0	µg/Kg		6/24/2009 07:28 PM
	ND	5.0	µg/Kg		6/24/2009 07:28 PM
o-xylene (PID)	101	65-140	µg/Kg		6/24/2009 07:28 PM

Qualifiers:
 b Detected in the associated Method Blank
 H 1 times for preparation or analysis exceeded
 S Spike Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
 Lab Order: 106074
 Project: I-5 No. Stockton, E8477-06-01
 Lab ID: 106074-034A

Sample ID: WE13-4
 Collection Date: 6/22/2009 1:27:00 PM
 Matrix: SOIL

Analyses

Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC

EPA 8015B(M)

RunID: GC2_090624B J9VS190 PrepDate: An: KHN
 GRO ND 1.0 mg/Kg 1 6/24/09
 Surr: Bromofluorobenzene 96.4 65-145 %REC 1 6/24/09

VOLATILE ORGANIC COMPOUNDS BY GC

PID

EPA 8021B

RunID: GC2_090624B GC Batch: J9VS190 PrepDate: KHN
 Benzene ND 5.0 µg/Kg 1 J7:44 PM
 Ethylbenzene ND 5.0 µg/Kg J9 07:44 PM
 m,p-Xylene ND 10 µg/Kg 2009 07:44 PM
 Methyl Ethylbenzene ND 5.0 µg/Kg 6/24/2009 07:44 PM
 o-Xylene ND 5.0 µg/Kg 6/24/2009 07:44 PM
 Toluene ND 5.0 µg/Kg 6/24/2009 07:44 PM
 Surr: Benzene (PID) 95.4 65-140 %REC 6/24/2009 07:44 PM

PACKAGE 2 DATA

- Qualifiers:**
- B associated Method Blank
 - E Value above quantitation range
 - H Hold. Separation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - S Spike/Sur. outside of limits due to matrix interference
 - Results are wet unless otherwise specified
 - DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
 Lab Order: 106074
 Project: I-5 No. Stockton, E8477-06-
 Lab ID: 106074-035A

Sample ID: WB14-4
 Collection Date: 6/22/2009 1:37:00 PM
 Matrix: SOIL

Analyses PQL Qual Units DF Date Analyzed

GASOLINE RANGE ORGANICS F

RunID: GC2_090624B E09VS190 EPA 8015B(M) PrepDate:
 GRO ND 1.0 mg/Kg 1 PM
 Surr: Bromofluorobenzene 103 59-145 %REC 1 :59 PM

VOLATILE ORGANICS F GC/PID

RunID: GC2 QC Batch: E09VS190 EPA 8021B PrepDate: Analyst: KHN
 Benzene ND 5.0 µg/Kg 6/24/2009 07:59 PM
 Ethylbenzene ND 5.0 µg/Kg 6/24/2009 07:59 PM
 m,p-Xylene ND 10 µg/Kg 6/24/2009 07:59 PM
 o-Xylene ND 5.0 µg/Kg 6/24/2009 07:59 PM
 p-Xylene ND 5.0 µg/Kg 6/24/2009 07:59 PM
 Fluorobenzene (PID) 101 65-140 µg/Kg 1 6/24/2009 07:59 PM

PACKAGE 2 DATA

PACKAGE 2 DATA

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference
 Results are wet unless otherwise specified
 DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.

Client Sample ID: WB15-4

Lab Order: 106074

Collection Date: 6/22/2009 1:51:00 PM

Project: I-5 No. Stockton, E8477-06-01

Matrix: SOIL

Lab ID: 106074-036A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624B	QC Batch: E09VS190			PrepDate:	Analyst: KHN	
GRO	ND	1.0		mg/Kg	1	6/24/2009 08:15 PM
Surr: Bromofluorobenzene (FID)	99.9	59-145		%REC	1	6/24/2009 08:15 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624B	QC Batch: E09VS190			PrepDate:	Analyst: KHN	
Benzene	ND	5.0		µg/Kg	1	6/24/2009 08:15 PM
Ethylbenzene	ND	5.0		µg/Kg	1	6/24/2009 08:15 PM
m,p-Xylene	ND	10		µg/Kg	1	6/24/2009 08:15 PM
Methyl tert-butyl ether	ND	5.0		µg/Kg	1	6/24/2009 08:15 PM
o-Xylene	ND	5.0		µg/Kg	1	6/24/2009 08:15 PM
Toluene	ND	5.0		µg/Kg	1	6/24/2009 08:15 PM
Surr: Bromofluorobenzene (PID)	97.8	65-140		%REC	1	6/24/2009 08:15 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.

Client Sample ID: WB16-4

Lab Order: 106074

Collection Date: 6/22/2009 1:54:00 PM

Project: I-5 No. Stockton, E8477-06-01

Matrix: SOIL

Lab ID: 106074-037A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624B	QC Batch: E09VS190	PrepDate:	Analyst: KHN		
GRO	ND	1.0	mg/Kg	1	6/24/2009 08:30 PM
Surr: Bromofluorobenzene (FID)	94.6	59-145	%REC	1	6/24/2009 08:30 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624B	QC Batch: E09VS190	PrepDate:	Analyst: KHN		
Benzene	ND	5.0	µg/Kg	1	6/24/2009 08:30 PM
Ethylbenzene	ND	5.0	µg/Kg	1	6/24/2009 08:30 PM
m,p-Xylene	ND	10	µg/Kg	1	6/24/2009 08:30 PM
Methyl tert-butyl ether	ND	5.0	µg/Kg	1	6/24/2009 08:30 PM
o-Xylene	ND	5.0	µg/Kg	1	6/24/2009 08:30 PM
Toluene	ND	5.0	µg/Kg	1	6/24/2009 08:30 PM
Surr: Bromofluorobenzene (PID)	93.0	65-140	%REC	1	6/24/2009 08:30 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT:	Geocon Consultants, Inc.	Client Sample ID:	WB17-4
Lab Order:	106074	Collection Date:	6/22/2009 2:09:00 PM
Project:	I-5 No. Stockton, E8477-06-01	Matrix:	SOIL
Lab ID:	106074-038A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624B	QC Batch: E09VS190	PrepDate:	Analyst: KHN		
GRO	ND	1.0	mg/Kg	1	6/24/2009 08:46 PM
Surr: Bromofluorobenzene (FID)	100	59-145	%REC	1	6/24/2009 08:46 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624B	QC Batch: E09VS190	PrepDate:	Analyst: KHN		
Benzene	ND	5.0	µg/Kg	1	6/24/2009 08:46 PM
Ethylbenzene	ND	5.0	µg/Kg	1	6/24/2009 08:46 PM
m,p-Xylene	ND	10	µg/Kg	1	6/24/2009 08:46 PM
Methyl tert-butyl ether	ND	5.0	µg/Kg	1	6/24/2009 08:46 PM
o-Xylene	ND	5.0	µg/Kg	1	6/24/2009 08:46 PM
Toluene	ND	5.0	µg/Kg	1	6/24/2009 08:46 PM
Surr: Bromofluorobenzene (PID)	99.6	65-140	%REC	1	6/24/2009 08:46 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
 Lab Order: 106074
 Project: I-5 No. Stockton, E8477-06-01
 Lab ID: 106074-039A

Client Sample ID: WB18-3
 Collection Date: 6/22/2009 2:27:00 PM
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624B	QC Batch: E09VS190	PrepDate:	Analyst: KHN		
GRO	ND	1.0	mg/Kg	1	6/24/2009 09:01 PM
Surr: Bromofluorobenzene (FID)	100	59-145	%REC	1	6/24/2009 09:01 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624B	QC Batch: E09VS190	PrepDate:	Analyst: KHN		
Benzene	ND	5.0	µg/Kg	1	6/24/2009 09:01 PM
Ethylbenzene	ND	5.0	µg/Kg	1	6/24/2009 09:01 PM
m,p-Xylene	ND	10	µg/Kg	1	6/24/2009 09:01 PM
Methyl tert-butyl ether	ND	5.0	µg/Kg	1	6/24/2009 09:01 PM
o-Xylene	ND	5.0	µg/Kg	1	6/24/2009 09:01 PM
Toluene	ND	5.0	µg/Kg	1	6/24/2009 09:01 PM
Surr: Bromofluorobenzene (PID)	98.9	65-140	%REC	1	6/24/2009 09:01 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference
 Results are wet unless otherwise specified
 DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc.
Lab Order: 106074
Project: I-5 No. Stockton, E8477-06-01
Lab ID: 106074-040A

Client Sample ID: WB19-4
Collection Date: 6/22/2009 2:26:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624B	QC Batch: E09VS190	PrepDate:	Analyst: KHN		
. GRO	ND	1.0	mg/Kg	1	6/24/2009 09:17 PM
Surr: Bromofluorobenzene (FID)	104	59-145	%REC	1	6/24/2009 09:17 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624B	QC Batch: E09VS190	PrepDate:	Analyst: KHN		
Benzene	ND	5.0	µg/Kg	1	6/24/2009 09:17 PM
Ethylbenzene	ND	5.0	µg/Kg	1	6/24/2009 09:17 PM
m,p-Xylene	ND	10	µg/Kg	1	6/24/2009 09:17 PM
Methyl tert-butyl ether	ND	5.0	µg/Kg	1	6/24/2009 09:17 PM
o-Xylene	ND	5.0	µg/Kg	1	6/24/2009 09:17 PM
Toluene	ND	5.0	µg/Kg	1	6/24/2009 09:17 PM
Surr: Bromofluorobenzene (PID)	102	65-140	%REC	1	6/24/2009 09:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



Advanced Technology Laboratories

ANALYTICAL RESULTS
 Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. **Client Sample ID:** WB20-4
Lab Order: 106074 **Collection Date:** 6/22/2009 2:48:00 PM
Project: I-5 No. Stockton, E8477-06-01 **Matrix:** SOIL
Lab ID: 106074-041A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624B	QC Batch: E09VS190				PrepDate:	Analyst: KHN
GRO	ND	1.0		mg/Kg	1	6/24/2009 09:33 PM
Surr: Bromofluorobenzene (FID)	103	59-145		%REC	1	6/24/2009 09:33 PM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624B	QC Batch: E09VS190				PrepDate:	Analyst: KHN
Benzene	ND	5.0		µg/Kg	1	6/24/2009 09:33 PM
Ethylbenzene	ND	5.0		µg/Kg	1	6/24/2009 09:33 PM
m,p-Xylene	ND	10		µg/Kg	1	6/24/2009 09:33 PM
Methyl tert-butyl ether	ND	5.0		µg/Kg	1	6/24/2009 09:33 PM
o-Xylene	ND	5.0		µg/Kg	1	6/24/2009 09:33 PM
Toluene	ND	5.0		µg/Kg	1	6/24/2009 09:33 PM
Surr: Bromofluorobenzene (PID)	101	65-140		%REC	1	6/24/2009 09:33 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 30-Jun-09

CLIENT: Geocon Consultants, Inc. **Client Sample ID:** WB21-4
Lab Order: 106074 **Collection Date:** 6/22/2009 2:59:00 PM
Project: I-5 No. Stockton, E8477-06-01 **Matrix:** SOIL
Lab ID: 106074-042A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_090624C	QC Batch: E09VS191	PrepDate:	Analyst: KHN		
GRO	ND	1.0	mg/Kg	1	6/25/2009 02:44 AM
Surr: Bromofluorobenzene (FID)	103	59-145	%REC	1	6/25/2009 02:44 AM

VOLATILE ORGANIC COMPOUNDS BY GC/PID

EPA 8021B

RunID: GC2_090624C	QC Batch: E09VS191	PrepDate:	Analyst: KHN		
Benzene	ND	5.0	µg/Kg	1	6/25/2009 02:44 AM
Ethylbenzene	ND	5.0	µg/Kg	1	6/25/2009 02:44 AM
m,p-Xylene	ND	10	µg/Kg	1	6/25/2009 02:44 AM
Methyl tert-butyl ether	ND	5.0	µg/Kg	1	6/25/2009 02:44 AM
o-Xylene	ND	5.0	µg/Kg	1	6/25/2009 02:44 AM
Toluene	ND	5.0	µg/Kg	1	6/25/2009 02:44 AM
Surr: Bromofluorobenzene (PID)	102	65-140	%REC	1	6/25/2009 02:44 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out





Advanced Technology Laboratories

CLIENT: Geokon Consultants, Inc.
 Work Order: 106074
 Project: I-5 No. Stockton, E8477-06-01

Date: 30-Jun-09

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MB-56147	Sample Type: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110249						
Client ID: PBS	Batch ID: 56147	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 6/26/2009	SeqNo: 1732674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	0.009	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	0.252	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.240	1.0									

Sample ID: LCS-56147	Sample Type: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110249						
Client ID: LCSS	Batch ID: 56147	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 6/26/2009	SeqNo: 1732675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	43.191	2.0	50.00	0	86.4	80	120				
Arsenic	43.180	1.0	50.00	0	86.4	80	120				
Barium	45.230	1.0	50.00	0	90.5	80	120				
Beryllium	44.430	1.0	50.00	0	88.9	80	120				
Cadmium	43.549	1.0	50.00	0.008793	87.1	80	120				
Chromium	41.555	1.0	50.00	0	83.1	80	120				
Cobalt	45.106	1.0	50.00	0	90.2	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_S

Sample ID: LCS-56147	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110249
Client ID: LCSS	Batch ID: 56147	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 6/26/2009	SeqNo: 1732675

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	45.853	2.0	50.00	0	91.7	80	120		0	20	
Lead	44.257	1.0	50.00	0.2517	88.0	80	120		7.58	20	
Molybdenum	46.747	1.0	50.00	0	93.5	80	120		20.1	20	R
Nickel	43.461	1.0	50.00	0	86.9	80	120		0	20	
Selenium	40.125	1.0	50.00	0	80.3	80	120		0	20	
Silver	41.500	1.0	50.00	0	83.0	80	120		0	20	
Thallium	40.004	1.0	50.00	0	80.0	80	120		0	20	
Vanadium	45.865	1.0	50.00	0	91.7	80	120		0	20	
Zinc	42.953	1.0	50.00	0.2402	85.4	80	120		0	20	

Sample ID: 106074-021A-DUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110249
Client ID: WB21-0	Batch ID: 56147	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 6/26/2009	SeqNo: 1732750

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.688	2.0						0.4598	0	20	
Arsenic	4.085	1.0						3.787	7.58	20	
Barium	107.575	1.0						131.6	20.1	20	R
Beryllium	ND	1.0						0	0	20	
Cadmium	0.762	1.0						0.7970	0	20	
Chromium	37.112	1.0						39.69	6.72	20	
Cobalt	9.703	1.0						10.55	8.35	20	
Copper	24.643	2.0						25.64	3.97	20	
Lead	172.836	1.0						157.3	9.44	20	
Molybdenum	-0.626	1.0						0.6045	0	20	
Nickel	45.805	1.0						49.87	8.49	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	38.133	1.0						40.15	5.15	20	
Zinc	130.033	1.0						125.7	3.37	20	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DC Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 S Spike/Surrogate outside of limits due to matrix interference
 II Holding times for preparation or analysis exceeded
 Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_S

Sample ID: 106074-021A-MS **SampType:** MS **TestCode:** 6010_S **Units:** mg/Kg **RunNo:** 110249
Client ID: WB21-0 **Batch ID:** 56147 **TestNo:** EPA 6010B **EPA 3050B** **Analysis Date:** 6/26/2009 **SeqNo:** 1732751
Prep Date: 6/24/2009

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	91.394	2.0	125.0	0.4598	72.7	25	106				
Arsenic	106.374	1.0	125.0	3.787	82.1	42	113				
Barium	222.843	1.0	125.0	131.6	73.0	19	140				
Beryllium	105.390	1.0	125.0	0	84.3	50	109				
Cadmium	101.017	1.0	125.0	0.7970	80.2	48	106				
Chromium	133.001	1.0	125.0	39.69	74.6	44	116				
Cobalt	113.840	1.0	125.0	10.55	82.8	47	107				
Copper	140.404	2.0	125.0	25.64	91.8	49	124				
Lead	337.178	1.0	125.0	157.3	144	33	120				
Molybdenum	109.107	1.0	125.0	0.6045	86.8	46	111				
Nickel	143.029	1.0	125.0	49.87	74.5	43	111				
Selenium	97.480	1.0	125.0	0	78.0	43	104				S
Silver	106.488	1.0	125.0	0	85.2	53	114				
Thallium	96.323	1.0	125.0	0	77.1	41	107				
Vanadium	140.086	1.0	125.0	40.15	79.9	48	116				
Zinc	385.302	1.0	125.0	125.7	208	24	129				S

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	94.214	2.0	125.0	0.4598	75.0	25	106	91.39	3.04	20	
Arsenic	110.886	1.0	125.0	3.787	85.7	42	113	106.4	4.15	20	
Barium	251.378	1.0	125.0	131.6	95.8	19	140	222.8	12.0	20	
Beryllium	109.005	1.0	125.0	0	87.2	50	109	105.4	3.37	20	
Cadmium	104.828	1.0	125.0	0.7970	83.2	48	106	101.0	3.70	20	
Chromium	147.215	1.0	125.0	39.69	86.0	44	116	133.0	10.1	20	
Cobalt	116.133	1.0	125.0	10.55	84.5	47	107	113.8	1.99	20	
Copper	149.887	2.0	125.0	25.64	99.4	49	124	140.4	6.53	20	
Lead	292.358	1.0	125.0	157.3	108	33	120	337.2	14.2	20	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 JI Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geokon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT
TestCode: 6010_S

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	113.052	1.0	125.0	0.6045	90.0	46	111	109.1	3.55	20	
Nickel	149.675	1.0	125.0	49.87	79.8	43	111	143.0	4.54	20	
Selenium	101.439	1.0	125.0	0	81.2	43	104	97.48	3.96	20	
Silver	111.985	1.0	125.0	0	89.6	53	114	106.5	5.03	20	
Thallium	99.176	1.0	125.0	0	79.3	41	107	96.32	2.92	20	
Vanadium	149.059	1.0	125.0	40.15	87.1	48	116	140.1	6.21	20	
Zinc	234.948	1.0	125.0	125.7	87.4	24	129	385.3	48.5	20	R

Sample ID: 106074-021A-MSD SampType: MSD TestCode: 6010_S Units: mg/Kg Prep Date: 6/24/2009 RunNo: 110249
 Client ID: WB21-0 Batch ID: 56147 TestNo: EPA 6010B EPA 3050B Analysis Date: 6/26/2009 SeqNo: 1732752

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_S

Sample ID: MB-56148 **SampType:** MBLK **TestCode:** 6010_S **Units:** mg/Kg **RunNo:** 110242
Client ID: PBS **Batch ID:** 56148 **TestNo:** EPA 6010B **EPA 3050B** **Analysis Date:** 6/25/2009 **SeqNo:** 1732309
Analyte **Result** **PQL** **SPK value** **SPK Ref Val** **%REC** **LowLimit** **HighLimit** **RPD Ref Val** **%RPD** **RPDLimit** **Qual**

Antimony	ND	2.0													
Arsenic	ND	1.0													
Barium	ND	1.0													
Beryllium	ND	1.0													
Cadmium	0.014	1.0													
Chromium	ND	1.0													
Cobalt	ND	1.0													
Copper	ND	2.0													
Lead	0.396	1.0													
Molybdenum	ND	1.0													
Nickel	0.060	1.0													
Selenium	ND	1.0													
Silver	ND	1.0													
Thallium	ND	1.0													
Vanadium	ND	1.0													
Zinc	ND	1.0													

Sample ID: LCS-56148 **SampType:** LCS **TestCode:** 6010_S **Units:** mg/Kg **RunNo:** 110242
Client ID: LCSS **Batch ID:** 56148 **TestNo:** EPA 6010B **EPA 3050B** **Analysis Date:** 6/25/2009 **SeqNo:** 1732310
Analyte **Result** **PQL** **SPK value** **SPK Ref Val** **%REC** **LowLimit** **HighLimit** **RPD Ref Val** **%RPD** **RPDLimit** **Qual**

Antimony	45.694	2.0	50.00	0	91.4	80	120								
Arsenic	45.136	1.0	50.00	0	90.3	80	120								
Barium	47.949	1.0	50.00	0	95.9	80	120								
Beryllium	47.456	1.0	50.00	0	94.9	80	120								
Cadmium	45.920	1.0	50.00	0.01407	91.8	80	120								
Chromium	43.946	1.0	50.00	0	87.9	80	120								
Cobalt	47.729	1.0	50.00	0	95.5	80	120								
Copper	48.899	2.0	50.00	0	97.8	80	120								
Lead	46.967	1.0	50.00	0.3962	93.1	80	120								

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- (X) Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on mw values
- FI Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_S

Sample ID: LCS-56148	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110242
Client ID: LCSS	Batch ID: 56148	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 6/25/2009	SeqNo: 1732310

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	48.818	1.0	50.00	0	97.6	80	120				
Nickel	45.713	1.0	50.00	0.05969	91.3	80	120				
Selenium	42.060	1.0	50.00	0	84.1	80	120				
Silver	47.298	1.0	50.00	0	94.6	80	120				
Thallium	41.995	1.0	50.00	0	84.0	80	120				
Vanadium	48.507	1.0	50.00	0	97.0	80	120				
Zinc	45.059	1.0	50.00	0	90.1	80	120				

Sample ID: 106074-010A-DUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110242
Client ID: WB10-0	Batch ID: 56148	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 6/25/2009	SeqNo: 1732321

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.419	2.0						0.5451	0	20	
Arsenic	2.638	1.0						2.438	7.90	20	
Barium	159.211	1.0						139.5	13.2	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.661	1.0						0.6250	0	20	
Chromium	20.109	1.0						18.08	10.6	20	
Cobalt	5.633	1.0						5.309	5.92	20	
Copper	26.337	2.0						29.60	11.7	20	
Lead	27.778	1.0						35.34	24.0	20	
Molybdenum	0.885	1.0						0.8541	0	20	
Nickel	20.741	1.0						18.94	9.09	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	29.153	1.0						27.94	4.25	20	
Zinc	111.225	1.0						112.6	1.22	20	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_S

Sample ID: 106074-010A-MS SampType: MS TestCode: 6010_S Units: mg/Kg Prep Date: 6/24/2009 RunNo: 110242
Client ID: WB10-0 Batch ID: 56148 TestNo: EPA 6010B EPA 3050B Analysis Date: 6/25/2009 SeqNo: 1732322

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	92.672	2.0	125.0	0.5451	73.7	25	106				
Arsenic	106.722	1.0	125.0	2.438	83.4	42	113				
Barium	276.395	1.0	125.0	139.5	110	19	140				
Beryllium	109.559	1.0	125.0	0	87.6	50	109				
Cadmium	104.341	1.0	125.0	0.6250	83.0	48	106				
Chromium	124.294	1.0	125.0	18.08	85.0	44	116				
Cobalt	113.347	1.0	125.0	5.309	86.4	47	107				
Copper	153.504	2.0	125.0	29.60	99.1	49	124				
Lead	141.365	1.0	125.0	35.34	84.8	33	120				
Molybdenum	111.720	1.0	125.0	0.8541	88.7	46	111				
Nickel	127.576	1.0	125.0	18.94	86.9	43	111				
Selenium	100.403	1.0	125.0	0	80.3	43	104				
Silver	112.515	1.0	125.0	0	90.0	53	114				
Thallium	96.627	1.0	125.0	0	77.3	41	107				
Vanadium	144.704	1.0	125.0	27.94	93.4	48	116				
Zinc	265.717	1.0	125.0	112.6	122	24	129				

Sample ID: 106074-010A-MSD SampType: MSD TestCode: 6010_S Units: mg/Kg Prep Date: 6/24/2009 RunNo: 110242
Client ID: WB10-0 Batch ID: 56148 TestNo: EPA 6010B EPA 3050B Analysis Date: 6/25/2009 SeqNo: 1732323

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	84.179	2.0	125.0	0.5451	66.9	25	106	92.67	9.60	20	
Arsenic	102.022	1.0	125.0	2.438	79.7	42	113	106.7	4.50	20	
Barium	278.964	1.0	125.0	139.5	112	19	140	276.4	0.925	20	
Beryllium	104.509	1.0	125.0	0	83.6	50	109	109.6	4.72	20	
Cadmium	99.721	1.0	125.0	0.6250	79.3	48	106	104.3	4.53	20	
Chromium	122.727	1.0	125.0	18.08	83.7	44	116	124.3	1.27	20	
Cobalt	108.735	1.0	125.0	5.309	82.7	47	107	113.3	4.15	20	
Copper	149.598	2.0	125.0	29.60	96.0	49	124	153.5	2.58	20	
Lead	147.062	1.0	125.0	35.34	89.4	33	120	141.4	3.95	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_S

Sample ID:	106074-010A-MSD	SampType:	MSD	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	6/24/2009	RunNo:	110242
Client ID:	WB10-0	Batch ID:	56148	TestNo:	EPA 6010B	EPA	3050B	Analysis Date:	6/25/2009	SeqNo:	1732323
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	105.274	1.0	125.0	0.8541	83.5	46	111	111.7	5.94	20	
Nickel	124.659	1.0	125.0	18.94	84.6	43	111	127.6	2.31	20	
Selenium	94.554	1.0	125.0	0	75.6	43	104	100.4	6.00	20	
Silver	107.601	1.0	125.0	0	86.1	53	114	112.5	4.46	20	
Thallium	91.207	1.0	125.0	0	73.0	41	107	96.63	5.77	20	
Vanadium	143.356	1.0	125.0	27.94	92.3	48	116	144.7	0.936	20	
Zinc	225.254	1.0	125.0	112.6	90.1	24	129	265.7	16.5	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geopcon Consultants, Inc.

Work Order: 106074

Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_S

Sample ID: MB-56149	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110245
Client ID: PBS	Batch ID: 56149	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 6/25/2009	SeqNo: 1732441

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	0.011	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	0.314	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	0.042	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: LCS-56149	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110245
Client ID: LCSS	Batch ID: 56149	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 6/25/2009	SeqNo: 1732442

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	44.561	2.0	50.00	0	89.2	80	120				
Arsenic	43.374	1.0	50.00	0	86.7	80	120				
Barium	47.243	1.0	50.00	0	94.5	80	120				
Beryllium	46.462	1.0	50.00	0	92.9	80	120				
Cadmium	44.632	1.0	50.00	0.01116	89.2	80	120				
Chromium	43.438	1.0	50.00	0	86.9	80	120				
Cobalt	46.765	1.0	50.00	0	93.5	80	120				
Copper	48.507	2.0	50.00	0	97.0	80	120				
Lead	47.223	1.0	50.00	0.3145	93.8	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_S

Sample ID: LCS-56149	SampType: LCS	TestCode: 6010_S	Units: mg/kg	Prep Date: 6/24/2009	RunNo: 110245						
Client ID: LCSS	Batch ID: 56149	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 6/25/2009	SeqNo: 1732442						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Molybdenum	47.767	1.0	50.00	0	95.5	80	120				
Nickel	45.151	1.0	50.00	0	90.3	80	120				
Selenium	40.815	1.0	50.00	0	81.6	80	120				
Silver	46.855	1.0	50.00	0.04221	93.6	80	120				
Thallium	40.984	1.0	50.00	0	82.0	80	120				
Vanadium	48.413	1.0	50.00	0	96.8	80	120				
Zinc	43.822	1.0	50.00	0	87.6	80	120				

Sample ID: 106074-020A-DUP	SampType: DUP	TestCode: 6010_S	Units: mg/kg	Prep Date: 6/24/2009	RunNo: 110245						
Client ID: WB20-0	Batch ID: 56149	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 6/25/2009	SeqNo: 1732490						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	0.536	2.0						0.4884	0	20	
Arsenic	3.277	1.0						3.121	4.88	20	
Barium	102.615	1.0						116.1	12.3	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.691	1.0						0.7427	0	20	
Chromium	29.542	1.0						31.88	7.61	20	
Cobalt	7.497	1.0						7.166	4.49	20	
Copper	25.082	2.0						29.07	14.7	20	
Lead	312.789	1.0						271.8	14.0	20	
Molybdenum	0.747	1.0						0.9790	0	20	
Nickel	35.562	1.0						35.59	0.0828	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	31.802	1.0						34.12	7.03	20	
Zinc	126.216	1.0						136.8	8.02	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

Sample ID: 106074-020A-MS SampType: MS TestCode: 6010_S Units: mg/Kg Prep Date: 6/24/2009 RunNo: 110245
Client ID: WB20-0 Batch ID: 56149 TestNo: EPA 6010B EPA 3050B Analysis Date: 6/25/2009 SeqNo: 1732491

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	92.371	2.0	125.0	0.4884	73.5	25	106				
Arsenic	105.096	1.0	125.0	3.121	81.6	42	113				
Barium	221.330	1.0	125.0	116.1	84.2	19	140				
Beryllium	108.945	1.0	125.0	0	87.2	50	109				
Cadmium	103.144	1.0	125.0	0.7427	81.9	48	106				
Chromium	129.010	1.0	125.0	31.88	77.7	44	116				
Cobalt	113.636	1.0	125.0	7.168	85.2	47	107				
Copper	146.964	2.0	125.0	29.07	94.3	49	124				
Lead	499.877	1.0	125.0	271.8	182	33	120				
Molybdenum	109.373	1.0	125.0	0.9790	86.7	46	111				S
Nickel	138.885	1.0	125.0	35.59	82.6	43	111				
Selenium	98.125	1.0	125.0	0	78.5	43	104				
Silver	111.589	1.0	125.0	0	89.3	53	114				
Thallium	95.310	1.0	125.0	0	76.2	41	107				
Vanadium	142.847	1.0	125.0	34.12	87.0	48	116				
Zinc	229.595	1.0	125.0	136.8	74.3	24	129				

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	85.601	2.0	125.0	0.4884	68.1	25	106	92.37	7.61	20	
Arsenic	99.572	1.0	125.0	3.121	77.2	42	113	105.1	5.40	20	
Barium	211.718	1.0	125.0	116.1	76.5	19	140	221.3	4.44	20	
Beryllium	103.308	1.0	125.0	0	82.6	50	109	108.9	5.31	20	
Cadmium	98.026	1.0	125.0	0.7427	77.8	48	106	103.1	5.09	20	
Chromium	128.525	1.0	125.0	31.88	77.3	44	116	129.0	0.377	20	
Cobalt	108.518	1.0	125.0	7.168	81.1	47	107	113.6	4.61	20	
Copper	141.657	2.0	125.0	29.07	90.1	49	124	147.0	3.68	20	
Lead	353.805	1.0	125.0	271.8	65.6	33	120	499.9	34.2	20	R

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DX Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on mv values
 I Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID:	106074-020A-MSD	SampType:	MSD	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	6/24/2009	RunNo:	110245	
Client ID:	WB20-0	Batch ID:	56149	TestNo:	EPA 6010B	EPA Ref Val	EPA 3050B	Analysis Date:	6/25/2009	SeqNo:	1732492	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum		103.510	1.0	125.0	0.9790	82.0	46	111	109.4	5.51	20	
Nickel		140.103	1.0	125.0	35.59	83.6	43	111	138.9	0.873	20	
Selenium		93.483	1.0	125.0	0	74.8	43	104	98.12	4.84	20	
Silver		106.186	1.0	125.0	0	84.9	53	114	111.6	4.96	20	
Thallium		89.855	1.0	125.0	0	71.9	41	107	95.31	5.89	20	
Vanadium		138.422	1.0	125.0	34.12	83.4	48	116	142.8	3.15	20	
Zinc		218.854	1.0	125.0	136.8	65.7	24	129	229.6	4.79	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7471_S

Sample ID	MB-56139	SampType: MBLK	TestCode: 7471_S	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110241					
Client ID	PBS	Batch ID: 56139	TestNo: EPA 7471A		Analysis Date: 6/25/2009	SeqNo: 1732297					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10	0.8300	0	105	80	120				
Sample ID	LCS-56139	SampType: LCS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 6/24/2009 <td>RunNo: 110241</td>	RunNo: 110241					
Client ID	LCSS	Batch ID: 56139	TestNo: EPA 7471A		Analysis Date: 6/25/2009 <td>SeqNo: 1732298</td>	SeqNo: 1732298					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit <td>HighLimit <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit <td>Qual</td> </td></td></td></td>	LowLimit <td>HighLimit <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit <td>Qual</td> </td></td></td>	HighLimit <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit <td>Qual</td> </td></td>	RPD Ref Val	%RPD <td>RPDLimit <td>Qual</td> </td>	RPDLimit <td>Qual</td>	Qual
Mercury	0.875	0.10	0.8300	0	105	80	120				
Sample ID	106066-007A-MS	SampType: MS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 6/24/2009 <td>RunNo: 110241</td>	RunNo: 110241					
Client ID	ZZZZZZ	Batch ID: 56139	TestNo: EPA 7471A		Analysis Date: 6/25/2009 <td>SeqNo: 1732299</td>	SeqNo: 1732299					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit <td>HighLimit <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit <td>Qual</td> </td></td></td></td>	LowLimit <td>HighLimit <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit <td>Qual</td> </td></td></td>	HighLimit <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit <td>Qual</td> </td></td>	RPD Ref Val	%RPD <td>RPDLimit <td>Qual</td> </td>	RPDLimit <td>Qual</td>	Qual
Mercury	1.059	0.10	0.8300	0.1293	112	70	130				
Sample ID	106066-007A-MSD	SampType: MSD	TestCode: 7471_S	Units: mg/Kg	Prep Date: 6/24/2009 <td>RunNo: 110241</td>	RunNo: 110241					
Client ID	ZZZZZZ	Batch ID: 56139	TestNo: EPA 7471A		Analysis Date: 6/25/2009 <td>SeqNo: 1732300</td>	SeqNo: 1732300					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit <td>HighLimit <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit <td>Qual</td> </td></td></td></td>	LowLimit <td>HighLimit <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit <td>Qual</td> </td></td></td>	HighLimit <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit <td>Qual</td> </td></td>	RPD Ref Val	%RPD <td>RPDLimit <td>Qual</td> </td>	RPDLimit <td>Qual</td>	Qual
Mercury	1.053	0.10	0.8300	0.1293	111	70	130	1.059	0.555	20	
Sample ID	106066-007A-DUP	SampType: DUP	TestCode: 7471_S	Units: mg/Kg	Prep Date: 6/24/2009 <td>RunNo: 110241</td>	RunNo: 110241					
Client ID	ZZZZZZ	Batch ID: 56139	TestNo: EPA 7471A		Analysis Date: 6/25/2009 <td>SeqNo: 1732302</td>	SeqNo: 1732302					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit <td>HighLimit <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit <td>Qual</td> </td></td></td></td>	LowLimit <td>HighLimit <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit <td>Qual</td> </td></td></td>	HighLimit <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit <td>Qual</td> </td></td>	RPD Ref Val	%RPD <td>RPDLimit <td>Qual</td> </td>	RPDLimit <td>Qual</td>	Qual
Mercury	0.114	0.10	0.8300	0.1293	111	70	130	0.1293	12.2	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spikes/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7471_S

Sample ID:	MB-56140	SampType:	MBLK	TestCode:	7471_S	Units:	mg/Kg	Prep Date:	6/24/2009	RunNo:	110244
Client ID:	PBS	Batch ID:	56140	TestNo:	EPA 7471A			Analysis Date:	6/25/2009	SeqNo:	1732399
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Mercury		ND	0.10			0	80	120			
Sample ID:	LCS-56140	SampType:	LCS	TestCode:	7471_S	Units:	mg/Kg	Prep Date:	6/24/2009	RunNo:	110244
Client ID:	LCSS	Batch ID:	56140	TestNo:	EPA 7471A			Analysis Date:	6/25/2009	SeqNo:	1732400
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Mercury		0.940	0.10	0.8300	0	113	80	120			
Sample ID:	106074-010A-MS	SampType:	MS	TestCode:	7471_S	Units:	mg/Kg	Prep Date:	6/24/2009	RunNo:	110244
Client ID:	WB10-0	Batch ID:	56140	TestNo:	EPA 7471A			Analysis Date:	6/25/2009	SeqNo:	1732401
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Mercury		0.926	0.10	0.8300	0.05472	105	70	130			
Sample ID:	106074-010A-MSD	SampType:	MSD	TestCode:	7471_S	Units:	mg/Kg	Prep Date:	6/24/2009	RunNo:	110244
Client ID:	WB10-0	Batch ID:	56140	TestNo:	EPA 7471A			Analysis Date:	6/25/2009	SeqNo:	1732402
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Mercury		0.959	0.10	0.8300	0.05472	109	70	130	0.9258	3.56	20
Sample ID:	106074-010A-DUP	SampType:	DUP	TestCode:	7471_S	Units:	mg/Kg	Prep Date:	6/24/2009	RunNo:	110244
Client ID:	WB10-0	Batch ID:	56140	TestNo:	EPA 7471A			Analysis Date:	6/25/2009	SeqNo:	1732404
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Mercury		0.049	0.10						0.05472	0	20

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 S Spike/Surrogate outside of limits due to matrix interference
 I Holding times for preparation or analysis exceeded
 Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7471_S

Sample ID:	MB-56141	SampType:	MBLK	TestCode:	7471_S	Units:	mg/Kg	Prep Date:	6/24/2009	RunNo:	110247
Client ID:	PBS	Batch ID:	56141	TestNo:	EPA 7471A			Analysis Date:	6/25/2009	SeqNo:	1732470
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									
Sample ID:	LCS-56141	SampType:	LCS	TestCode:	7471_S	Units:	mg/Kg <td>Prep Date:</td> <td>6/24/2009 <td>RunNo:</td> <td>110247</td> </td>	Prep Date:	6/24/2009 <td>RunNo:</td> <td>110247</td>	RunNo:	110247
Client ID:	LCSS	Batch ID:	56141	TestNo:	EPA 7471A			Analysis Date:	6/25/2009 <td>SeqNo:</td> <td>1732471</td>	SeqNo:	1732471
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.942	0.10	0.8300	0	113	80	120				
Sample ID:	106074-020A-MS	SampType:	MS	TestCode:	7471_S	Units:	mg/Kg <td>Prep Date:</td> <td>6/24/2009 <td>RunNo:</td> <td>110247</td> </td>	Prep Date:	6/24/2009 <td>RunNo:</td> <td>110247</td>	RunNo:	110247
Client ID:	WB20-0	Batch ID:	56141	TestNo:	EPA 7471A			Analysis Date:	6/25/2009 <td>SeqNo:</td> <td>1732472</td>	SeqNo:	1732472
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.945	0.10	0.8300	0.07460	105	70	130				
Sample ID:	106074-020A-MSD	SampType:	MSD	TestCode:	7471_S	Units:	mg/Kg <td>Prep Date:</td> <td>6/24/2009 <td>RunNo:</td> <td>110247</td> </td>	Prep Date:	6/24/2009 <td>RunNo:</td> <td>110247</td>	RunNo:	110247
Client ID:	WB20-0	Batch ID:	56141	TestNo:	EPA 7471A			Analysis Date:	6/25/2009 <td>SeqNo:</td> <td>1732473</td>	SeqNo:	1732473
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.992	0.10	0.8300	0.07460	111	70	130	0.9446	4.93	20	
Sample ID:	106074-020A-DUP	SampType:	DUP	TestCode:	7471_S	Units:	mg/Kg <td>Prep Date:</td> <td>6/24/2009 <td>RunNo:</td> <td>110247</td> </td>	Prep Date:	6/24/2009 <td>RunNo:</td> <td>110247</td>	RunNo:	110247
Client ID:	WB20-0	Batch ID:	56141	TestNo:	EPA 7471A			Analysis Date:	6/25/2009 <td>SeqNo:</td> <td>1732475</td>	SeqNo:	1732475
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.057	0.10						0.07460	0	20	

Qualifiers:

- B Analyte detected in the associated Method Blank.
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gcocon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 8015_S_DM L L

Sample ID:	MB-56144	SampType:	MBLK	TestCode:	8015_S_DM L	Units:	mg/Kg	Prep Date:	6/24/2009	RunNo:	110368
Client ID:	PBS	Batch ID:	56144	TestNo:	EPA 8015B(M)	EPA	3550B	Analysis Date:	6/26/2009	SeqNo:	1735146
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	2.658		2.670		99.5	30	130				

Sample ID:	LCS-56144	SampType:	LCS	TestCode:	8015_S_DM L	Units:	mg/Kg	Prep Date:	6/24/2009	RunNo:	110368
Client ID:	LCSS	Batch ID:	56144	TestNo:	EPA 8015B(M)	EPA	3550B	Analysis Date:	6/26/2009	SeqNo:	1735147
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	25.270	1.0	33.00	0	76.6	35	124				
Surr: p-Terphenyl	2.545		2.670		95.3	30	130				

Sample ID:	106074-015ADUP	SampType:	DUP	TestCode:	8015_S_DM L	Units:	mg/Kg	Prep Date:	6/24/2009	RunNo:	110368
Client ID:	WB15-0	Batch ID:	56144	TestNo:	EPA 8015B(M)	EPA	3550B	Analysis Date:	6/29/2009	SeqNo:	1735156
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	160.527	20						200.1	21.9	20	R
ORO	1043.320	20						1203	14.2	20	
Surr: p-Terphenyl	0		2.670		0	30	130		0	0	SDO

Sample ID:	106074-015AMS	SampType:	MS	TestCode:	8015_S_DM L	Units:	mg/Kg	Prep Date:	6/24/2009	RunNo:	110368
Client ID:	WB15-0	Batch ID:	56144	TestNo:	EPA 8015B(M)	EPA	3550B	Analysis Date:	6/29/2009	SeqNo:	1735157
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	247.380	20	33.00	200.1	143	12	125				S
Surr: p-Terphenyl	0		2.670		0	30	130				SDO

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geokon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT
TestCode: 8015_S_DM L L

Sample ID: 106074-015AMSD SampType: MSD TestCode: 8015_S_DM L Units: mg/Kg Prep Date: 6/24/2009 RunNo: 110368
 Client ID: WB15-0 Batch ID: 56144 TestNo: EPA 8015BIM EPA 3550B Analysis Date: 6/29/2009 SeqNo: 1735158

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	327.427	20	33.00	200.1	386	12	125	247.4	27.9	20	SR
Surr: p-Terphenyl	0		2.670		0	30	130		0	0	SDO

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- JH Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 8015_S_DM L L

Sample ID: MB-56145	SampType: MBLK	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110335						
Client ID: PBS	Batch ID: 56145	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 6/26/2009	SeqNo: 1735004						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	2.454		2.670		91.9	30	130				

Sample ID: LCS-56145	SampType: LCS	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110335						
Client ID: LCSS	Batch ID: 56145	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 6/26/2009	SeqNo: 1735005						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	24.885	1.0	33.00	0	75.4	35	124				
Surr: p-Terphenyl	2.589		2.670		97.0	30	130				

Sample ID: 106074-010ADUP	SampType: DUP	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110335						
Client ID: WB10-0	Batch ID: 56145	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 6/26/2009	SeqNo: 1735014						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	60.160	40						104.9	54.2	20	R
ORO	436.467	40						789.6	57.6	20	R
Surr: p-Terphenyl	0		2.670		0	30	130		0	0	SDO

Sample ID: 106074-010AMSD	SampType: MSD	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110335						
Client ID: WB10-0	Batch ID: 56145	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 6/26/2009	SeqNo: 1735015						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	72.327	20	33.00	104.9	-98.8	12	125	50.71	35.1	20	SR
Surr: p-Terphenyl	0		2.670		0	30	130		0	0	SDO

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT
TestCode: 8015_S_DM L L

Sample ID: 106074-010AMS	Sample Type: MS	TestCode: 8015_S_DM L L	Units: mg/Kg	Prep Date: 6/24/2009	RunNo: 110335						
Client ID: WB10-0	Batch ID: 56145	TestNo: EPA.8015B(M EPA.3550B		Analysis Date: 6/26/2009	SeqNo: 1735016						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	50.713	20	33.00	104.9	-164	12	125				S
Surr: p-Terphenyl	0		2.670		0	30	130				SDO

Qualifiers:

B Analyte detected in the associated Method Blank
 NID Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, ES477-06-01

TestCode: 8015_S_DM L L

Sample ID: MB-56152	SampType: MBLK	TestCode: 8015_S_DM L	Units: mg/Kg	RunNo: 110333
Client ID: PBS	Batch ID: 56152	TestNo: EPA 8015B(M)	EPA 3550B	SeqNo: 1734310
Analyte	Result	PQL	SPK value	SPK Ref Val
DRO	ND	1.0		
ORO	ND	1.0		
Surr: p-Terphenyl	2.438		2.670	91.3
				30
				130

Sample ID: LCS-56152	SampType: LCS	TestCode: 8015_S_DM L	Units: mg/Kg	RunNo: 110333
Client ID: LCSS	Batch ID: 56152	TestNo: EPA 8015B(M)	EPA 3550B	SeqNo: 1734311
Analyte	Result	PQL	SPK value	SPK Ref Val
DRO	19.578	1.0	33.00	0
Surr: p-Terphenyl	2.002		2.670	59.3
				75.0
				35
				124
				30
				130

Sample ID: 106074-001ADUP	SampType: DUP	TestCode: 8015_S_DM L	Units: mg/Kg	RunNo: 110333
Client ID: WB1-0	Batch ID: 56152	TestNo: EPA 8015B(M)	EPA 3550B	SeqNo: 1734316
Analyte	Result	PQL	SPK value	SPK Ref Val
DRO	151.293	40		143.9
ORO	590.400	40		774.7
Surr: p-Terphenyl	0		2.670	0
				30
				130
				4.99
				27.0
				20
				20
				0
				0
				SDO

Sample ID: 106074-001AMS	SampType: MS	TestCode: 8015_S_DM L	Units: mg/Kg	RunNo: 110333
Client ID: WB1-0	Batch ID: 56152	TestNo: EPA 8015B(M)	EPA 3550B	SeqNo: 1734317
Analyte	Result	PQL	SPK value	SPK Ref Val
DRO	177.320	40	33.00	143.9
Surr: p-Terphenyl	0		2.670	101
				0
				12
				125
				30
				130
				0
				SDO

Qualifiers:
 B Analyte detected in the associated Method Blank
 NID Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 8015_S_DM L L

Sample ID: 106074-001AMS D **SampType:** MSD **TestCode:** 8015_S_DM L **Units:** mg/Kg **RunNo:** 110333
Client ID: WB1-0 **Batch ID:** 56152 **TestNo:** EPA 8015B(M) EPA 3550B **Analysis Date:** 6/26/2009 **SeqNo:** 1734318

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	176.487	40	33.00	143.9	98.6	12	125	177.3	0.482	20	
Surf: p-Terphenyl	0		2.670		0	30	130		0	0	SDO

Qualifiers:

- B Analyte detected in the associated Method Blank
- NID Not Detected at the Reporting Limit
- DDO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT
TestCode: 8015_S_GAS

Sample ID: E090624LCS1	SampType: LCS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110208
Client ID: LCSS	Batch ID: E09VS189	TestNo: EPA 8015B(M)		Analysis Date: 6/24/2009	SeqNo: 1731532
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
GRO	4.405	1.0	5.000	0	88.1
Surr: Bromofluorobenzene (FID)	94.763		100.0		94.8
					73
					59
					120
					145

Sample ID: 106074-022AMS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110208
Client ID: WB1-4	Batch ID: E09VS189	TestNo: EPA 8015B(M)		Analysis Date: 6/24/2009	SeqNo: 1731533
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
GRO	4.217	1.0	5.000	0	84.3
Surr: Bromofluorobenzene (FID)	104.542		100.0		105
					39
					59
					135
					145

Sample ID: 106074-022AMSD	SampType: MSD	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110208
Client ID: WB1-4	Batch ID: E09VS189	TestNo: EPA 8015B(M)		Analysis Date: 6/24/2009	SeqNo: 1731534
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
GRO	3.581	1.0	5.000	0	71.6
Surr: Bromofluorobenzene (FID)	117.595		100.0		118
					39
					59
					135
					145
					16.3
					0
					0

Sample ID: E090624MB1	SampType: MBLK	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110208
Client ID: PBS	Batch ID: E09VS189	TestNo: EPA 8015B(M)		Analysis Date: 6/24/2009	SeqNo: 1731535
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
GRO	ND	1.0			
Surr: Bromofluorobenzene (FID)	97.866		100.0		97.9
					59
					145

Sample ID: 106074-022ADUP	SampType: DUP	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110208
Client ID: WB1-4	Batch ID: E09VS189	TestNo: EPA 8015B(M)		Analysis Date: 6/24/2009	SeqNo: 1731537
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
GRO	ND	1.0			
					0
					0
					0
					20

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 II Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 8015_S_GAS

Sample ID: 106074-022ADUP	SampType: DUP	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110208						
Client ID: WBI-4	Batch ID: E09VS189	TestNo: EPA 8015B(M)		Analysis Date: 6/24/2009	SeqNo: 1731537						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	108.379		100.0		108	59	145		0	0	0

Qualifiers:

- B Analyte detected in the associated Method Blank
- NID Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT
TestCode: 8015_S_GAS

Sample ID: E090624LCS3	SampType: LCS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110209						
Client ID: LCSS	Batch ID: E09VS190	TestNo: EPA 8015B(M)		Analysis Date: 6/24/2009	SeqNo: 1731562						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.536	1.0	5.000	0	90.7	73	120				
Surr: Bromofluorobenzene (FID)	95.948		100.0		95.9	59	145				

Sample ID: 106074-032AMS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110209						
Client ID: WB11-4	Batch ID: E09VS190	TestNo: EPA 8015B(M)		Analysis Date: 6/24/2009	SeqNo: 1731564						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	2.500	1.0	5.000	0	50.0	39	135				
Surr: Bromofluorobenzene (FID)	111.130		100.0		111	59	145				

Sample ID: 106074-032AMSD	SampType: MSD	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110209						
Client ID: WB11-4	Batch ID: E09VS190	TestNo: EPA 8015B(M)		Analysis Date: 6/24/2009	SeqNo: 1731565						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.097	1.0	5.000	0	81.9	39	135	2.500	48.4	20	R
Surr: Bromofluorobenzene (FID)	104.342		100.0		104	59	145		0	0	

Sample ID: E090624MB2	SampType: MBLK	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110209						
Client ID: PBS	Batch ID: E09VS190	TestNo: EPA 8015B(M)		Analysis Date: 6/24/2009	SeqNo: 1731566						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surr: Bromofluorobenzene (FID)	95.827		100.0		95.8	59	145				

Sample ID: 106074-032ADUP	SampType: DUP	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110209						
Client ID: WB11-4	Batch ID: E09VS190	TestNo: EPA 8015B(M)		Analysis Date: 6/24/2009	SeqNo: 1731568						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0						0	0	0	20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geokon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID: 106074-032ADUP	SampType: DUP	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110209						
Client ID: WB11-4	Batch ID: E09VS190	TestNo: EPA 8015B(M)		Analysis Date: 6/24/2009	SeqNo: 1731568						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	111.508		100.0		112	59	145		0	0	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 8015_S_GAS

Sample ID: E090624LCS5	SampType: LCS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110216						
Client ID: LCSS	Batch ID: E09VS191	TestNo: EPA 8015B(M)		Analysis Date: 6/25/2009	SeqNo: 1731859						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.267	1.0	5.000	0	85.3	73	120				
Surr: Bromofluorobenzene (FID)	93.849		100.0		93.8	59	145				

Sample ID: 106074-042AMS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110216						
Client ID: WB21-4	Batch ID: E09VS191	TestNo: EPA 8015B(M)		Analysis Date: 6/25/2009	SeqNo: 1731860						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.619	1.0	5.000	0	72.4	39	135				
Surr: Bromofluorobenzene (FID)	98.772		100.0		98.8	59	145				

Sample ID: 106074-042AMSD	SampType: MSD	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110216						
Client ID: WB21-4	Batch ID: E09VS191	TestNo: EPA 8015B(M)		Analysis Date: 6/25/2009	SeqNo: 1731861						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.663	1.0	5.000	0	73.3	39	135	3.619	1.21	20	
Surr: Bromofluorobenzene (FID)	99.928		100.0		99.9	59	145		0	0	

Sample ID: E090624MB3	SampType: MBLK	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110216						
Client ID: PBS	Batch ID: E09VS191	TestNo: EPA 8015B(M)		Analysis Date: 6/25/2009	SeqNo: 1731862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0	100.0		99.1	59	145				
Surr: Bromofluorobenzene (FID)	99.105										

Sample ID: 106074-042ADUP	SampType: DUP	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110216						
Client ID: WB21-4	Batch ID: E09VS191	TestNo: EPA 8015B(M)		Analysis Date: 6/25/2009	SeqNo: 1731864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0							0	0	20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- IX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01
TestCode: 8015_S_GAS

Sample ID: 106074-042ADUP	Sample Type: DUP	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 110216		
Client ID: WB21-4	Batch ID: E09YS191	TestNo: EPA 8015B(M)		Analysis Date: 6/25/2009	SeqNo: 1731864		
Analyte	Result	PQL	SPK value	SPK Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	106.904		100.0	107	59	145	0

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DX Surrogate Diluted Out
 E Values above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spikes/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 8021_S_BTEX

Sample ID: E090624LCS2	SampType: LCS	TestCode: 8021_S_BTE	Units: µg/Kg	Prep Date:	RunNo: 110208						
Client ID: LCSS	Batch ID: E09VS189	TestNo: EPA 8021B		Analysis Date: 6/24/2009	SeqNo: 1731547						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	101.848	5.0	100.0	0	102	80	121				
Ethylbenzene	103.226	5.0	100.0	0	103	84	120				
m,p-Xylene	209.831	10	200.0	0	105	84	122				
Methyl tert-butyl ether	100.116	5.0	100.0	0	100	86	128				
o-Xylene	105.945	5.0	100.0	0	106	84	123				
Toluene	103.537	5.0	100.0	0	104	84	120				
Surr: Bromofluorobenzene (PID)	99.369		100.0		99.4	65	140				

Sample ID: 106074-022AMS	SampType: MS	TestCode: 8021_S_BTE	Units: µg/Kg	Prep Date:	RunNo: 110208						
Client ID: WB1-4	Batch ID: E09VS189	TestNo: EPA 8021B		Analysis Date: 6/24/2009	SeqNo: 1731548						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	29.808	5.0	35.75	0	83.4	22	132				
Ethylbenzene	37.090	5.0	49.65	0	74.7	15	133				
m,p-Xylene	155.100	10	199.6	0	77.7	30	118				
Methyl tert-butyl ether	548.333	5.0	578.9	0	94.7	38	136				
o-Xylene	56.659	5.0	78.40	0	72.3	21	119				
Toluene	141.211	5.0	172.2	0	82.0	36	129				
Xylenes, Total	211.759	15	278.0	0	76.2	70	130				
Surr: Bromofluorobenzene (PID)	107.589		100.0		108	65	140				

Sample ID: 106074-022AMS	SampType: MSD	TestCode: 8021_S_BTE	Units: µg/Kg	Prep Date:	RunNo: 110208						
Client ID: WB1-4	Batch ID: E09VS189	TestNo: EPA 8021B		Analysis Date: 6/24/2009	SeqNo: 1731549						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	27.154	5.0	35.75	0	76.0	22	132	29.81	9.32	20	
Ethylbenzene	34.374	5.0	49.65	0	69.2	15	133	37.09	7.60	20	
m,p-Xylene	145.895	10	199.6	0	73.1	30	118	155.1	6.12	20	
Methyl tert-butyl ether	510.932	5.0	578.9	0	88.3	38	136	548.3	7.06	20	
o-Xylene	52.635	5.0	78.40	0	67.1	21	119	56.66	7.36	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spikes/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 8021_S_BTEX

Sample ID: 106074-022AMSD	SampType: MSD	TestCode: 8021_S_BTE	Units: µg/Kg
Client ID: WB1-4	Batch ID: E09VS189	Analysis Date: 6/24/2009	Prep Date: RunNo: 110208 SeqNo: 1731549

Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	5.0	172.2	0	77.6	36	129	141.2	5.55	20	
Xylenes, Total	15	278.0	0	71.4	70	130	211.8	6.45	20	
Surr: Bromofluorobenzene (PID)		100.0		110	65	140		0	20	

Sample ID: E090624MB1	SampType: MBLK	TestCode: 8021_S_BTE	Units: µg/Kg
Client ID: PBS	Batch ID: E09VS189	Analysis Date: 6/24/2009	Prep Date: RunNo: 110208 SeqNo: 1731550

Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	5.0									
Ethylbenzene	5.0									
m,p-Xylene	10									
Methyl tert-butyl ether	5.0									
o-Xylene	5.0									
Toluene	5.0									
Surr: Bromofluorobenzene (PID)		100.0		96.4	65	140				

Sample ID: 106074-022ADUP	SampType: DUP	TestCode: 8021_S_BTE	Units: µg/Kg
Client ID: WB1-4	Batch ID: E09VS189	Analysis Date: 6/24/2009	Prep Date: RunNo: 110208 SeqNo: 1731552

Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	5.0									
Ethylbenzene	5.0									
m,p-Xylene	10									
Methyl tert-butyl ether	5.0									
o-Xylene	5.0									
Toluene	5.0									
Xylenes, Total	15									
Surr: Bromofluorobenzene (PID)		100.0		107	65	140				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106074

Project: I-5 No. Stockton, E8477-06-01

TestCode: 8021_S_BTEX

Sample ID: E090624LCS4	SampType: LCS	TestCode: 8021_S_BTE	Units: µg/Kg
Client ID: LCSS	Batch ID: E09VS190	Analysis Date: 6/24/2009	Prep Date: 6/24/2009
		SeqNo: 1731594	RunNo: 110209

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	100.890	5.0	100.0	0	101	80	121				
Ethylbenzene	101.410	5.0	100.0	0	101	84	120				
m,p-Xylene	206.407	10	200.0	0	103	84	122				
Methyl tert-butyl ether	97.047	5.0	100.0	0	97.0	66	128				
o-Xylene	104.284	5.0	100.0	0	104	84	123				
Toluene	102.155	5.0	100.0	0	102	84	120				
Surr: Bromofluorobenzene (PID)	97.493		100.0		97.5	65	140				

Sample ID: 106074-032AMS	SampType: MS	TestCode: 8021_S_BTE	Units: µg/Kg
Client ID: WB11-4	Batch ID: E09VS190	Analysis Date: 6/24/2009	Prep Date: 6/24/2009
		SeqNo: 1731595	RunNo: 110209

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.812	5.0	35.75	0	55.4	22	132				
Ethylbenzene	25.124	5.0	49.65	0	50.6	15	133				
m,p-Xylene	106.371	10	199.6	0	53.3	30	118				
Methyl tert-butyl ether	353.613	5.0	578.9	0	61.1	38	136				
o-Xylene	38.470	5.0	78.40	0	49.1	21	119				
Toluene	98.172	5.0	172.2	0	57.0	36	129				
Surr: Bromofluorobenzene (PID)	106.188		100.0		106	65	140				

Sample ID: 106074-032AMSD	SampType: MSD	TestCode: 8021_S_BTE	Units: µg/Kg
Client ID: WB11-4	Batch ID: E09VS190	Analysis Date: 6/24/2009	Prep Date: 6/24/2009
		SeqNo: 1731596	RunNo: 110209

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	27.406	5.0	35.75	0	76.7	22	132	19.81	32.2	20	R
Ethylbenzene	35.853	5.0	49.65	0	72.2	15	133	25.12	35.2	20	R
m,p-Xylene	147.952	10	199.6	0	74.1	30	118	106.4	32.7	20	R
Methyl tert-butyl ether	501.995	5.0	578.9	0	86.7	38	136	353.6	34.7	20	R
o-Xylene	54.100	5.0	78.40	0	69.0	21	119	38.47	33.8	20	R
Toluene	135.148	5.0	172.2	0	78.5	36	129	98.17	31.7	20	R

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- NID Not Detected at the Reporting Limit
- IXD Surrogate Diluted Out
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 8021_S_BTEX

Sample ID: 106074-032AMSD	SampType: MSD	TestCode: 8021_S_BTE	Units: µg/Kg	Prep Date:	RunNo: 110209						
Client ID: WB11-4	Batch ID: E09VS190	TestNo: EPA 8021B		Analysis Date: 6/24/2009	SeqNo: 1731596						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (PID)	109.030		100.0		109	65	140		0	20	

Sample ID: E090624MB2	SampType: MBLK	TestCode: 8021_S_BTE	Units: µg/Kg	Prep Date:	RunNo: 110209						
Client ID: PBS	Batch ID: E09VS190	TestNo: EPA 8021B		Analysis Date: 6/24/2009	SeqNo: 1731597						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	5.0									
Ethylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methyl tert-butyl ether	ND	5.0									
o-Xylene	ND	5.0									
Toluene	ND	5.0									
Surr: Bromofluorobenzene (PID)	94.861		100.0		94.9	65	140				

Sample ID: 106074-032ADUP	SampType: DUP	TestCode: 8021_S_BTE	Units: µg/Kg	Prep Date:	RunNo: 110209						
Client ID: WB11-4	Batch ID: E09VS190	TestNo: EPA 8021B		Analysis Date: 6/24/2009	SeqNo: 1731599						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	5.0									
Ethylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methyl tert-butyl ether	ND	5.0									
o-Xylene	ND	5.0									
Toluene	ND	5.0									
Xylenes, Total	ND	15									
Surr: Bromofluorobenzene (PID)	109.894		100.0		110	65	140				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 S Spike/Surrogate outside of limits due to matrix interference
 I Holding times for preparation or analysis exceeded
 Calculations are based on raw values



CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: 1-5 No. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8021_S_BTEX

Sample ID: E090624LCS6 SampType: LCS TestCode: 8021_S_BTE Units: µg/Kg Prep Date: RunNo: 110216
Client ID: LCS5 Batch ID: E09VS191 TestNo: EPA 8021B Analysis Date: 6/25/2009 SeqNo: 1731875

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	99.717	5.0	100.0	0	99.7	80	121				
Ethylbenzene	99.073	5.0	100.0	0	99.1	84	120				
m,p-Xylene	200.267	10	200.0	0	100	84	122				
Methyl tert-butyl ether	98.398	5.0	100.0	0	98.4	66	128				
o-Xylene	102.087	5.0	100.0	0	102	84	123				
Toluene	100.697	5.0	100.0	0	101	84	120				
Surr: Bromofluorobenzene (PID)	97.448		100.0		97.4	65	140				

Sample ID: 106074-04ZAMS SampType: MS TestCode: 8021_S_BTE Units: µg/Kg Prep Date: RunNo: 110216
Client ID: WB21-4 Batch ID: E09VS191 TestNo: EPA 8021B Analysis Date: 6/25/2009 SeqNo: 1731876

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	25.538	5.0	35.75	0	71.4	22	132				
Ethylbenzene	31.385	5.0	49.65	0	63.2	15	133				
m,p-Xylene	128.865	10	199.6	0	64.6	30	118				
Methyl tert-butyl ether	465.382	5.0	578.9	0	80.4	38	136				
o-Xylene	46.825	5.0	78.40	0	59.7	21	119				
Toluene	122.621	5.0	172.2	0	71.2	36	129				
Surr: Bromofluorobenzene (PID)	103.684		100.0		104	65	140				

Sample ID: 106074-04ZAMSD SampType: MSD TestCode: 8021_S_BTE Units: µg/Kg Prep Date: RunNo: 110216
Client ID: WB21-4 Batch ID: E09VS191 TestNo: EPA 8021B Analysis Date: 6/25/2009 SeqNo: 1731877

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	27.008	5.0	35.75	0	75.5	22	132	25.54	5.60	20	
Ethylbenzene	31.521	5.0	49.65	0	63.5	15	133	31.38	0.432	20	
m,p-Xylene	128.719	10	199.6	0	64.5	30	118	128.9	0.113	20	
Methyl tert-butyl ether	473.176	5.0	578.9	0	81.7	38	136	465.4	1.66	20	
o-Xylene	46.650	5.0	78.40	0	59.5	21	119	46.82	0.374	20	
Toluene	122.887	5.0	172.2	0	71.3	36	129	122.6	0.217	20	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106074

Project: I-5 Np. Stockton, E8477-06-01

TestCode: 8021_S_BTEX

Sample ID: 106074-042AMSD	SampType: MSD	TestCode: 8021_S_BTE	Units: µg/Kg	Prep Date: 110216
Client ID: WB21-4	Batch ID: E09VS191	TestNo: EPA 8021B		SeqNo: 1731877
Analyte	Result	PQL	SPK value	SPK Ref Val
		%REC	LowLimit	HighLimit
		%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (PID)	105.163	105	65	140
		0	0	20

Sample ID: E090624MB3	SampType: MBLK	TestCode: 8021_S_BTE	Units: µg/Kg	Prep Date: 110216
Client ID: PBS	Batch ID: E09VS191	TestNo: EPA 8021B		SeqNo: 1731878
Analyte	Result	PQL	SPK value	SPK Ref Val
		%REC	LowLimit	HighLimit
		%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (PID)	98.701	98.7	65	140

Benzene	ND	5.0		
Ethylbenzene	ND	5.0		
m,p-Xylene	ND	10		
Methyl tert-butyl ether	ND	5.0		
o-Xylene	ND	5.0		
Toluene	ND	5.0		

Sample ID: 106074-042ADUP	SampType: DUP	TestCode: 8021_S_BTE	Units: µg/Kg	Prep Date: 110216
Client ID: WB21-4	Batch ID: E09VS191	TestNo: EPA 8021B		SeqNo: 1731880
Analyte	Result	PQL	SPK value	SPK Ref Val
		%REC	LowLimit	HighLimit
		%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (PID)	105.012	105	65	140
		0	0	20

Benzene	ND	5.0		
Ethylbenzene	ND	5.0		
m,p-Xylene	ND	10		
Methyl tert-butyl ether	ND	5.0		
o-Xylene	ND	5.0		
Toluene	ND	5.0		
Xylenes, Total	ND	15		

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

P.O.#: _____ Date: 6/23/09
 Logged By: _____

Method of Transport: Client ATL CA OverN FEDEX Other: UPS

Sample Condition Upon Receipt: 17-0
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: SEDCON
 Attn: L. VIGLIOTTI
 Project Name: I-5 No. 2006-01
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/24/09
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/24/09
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/24/09

Address: 6671 BRISA ST
 City: LIVERMORE State: CA Zip Code: 94550
 State: CA Zip: 94550
 Sampler: D. WATTS
 Received by: (Signature and Printed Name) [Signature] Date: 6/22/09 Time: 1600
 Received by: (Signature and Printed Name) [Signature] Date: 6/23/09 Time: 9:37
 Received by: (Signature and Printed Name) [Signature] Date: _____ Time: _____

Bill To: _____
 Attn: _____
 Co: SBE "CLIENT"
 Address: _____
 City: _____ State: _____ Zip: _____

Special Instructions/Comments:
 SOUND WITH/RETURNING WALL SAMPLES
 RETURN ALL GREEN COLOR PLEASE

LAB USE ONLY: Batch #:	Lab No.	Sample Description	Sample I.D. / Location		Date	Time	Container(s)	TAT	Type	PRESERVATION	REMARKS
			Sample I.D.	Location							
106074-081	1	WB1-0	WB1-0	0941	9/24/09	0941					
	2	WB2-0	WB2-0	0950		0950					
	3	WB3-0	WB3-0	1027		1027					
	4	WB4-0	WB4-0	1023		1023					
	5	WB5-0	WB5-0	1120		1120					
	6	WB6-0	WB6-0	1142		1142					
	7	WB7-0	WB7-0	1139		1139					
	8	WB8-0	WB8-0	1211		1211					
	9	WB9-0	WB9-0	1209		1209					
	10	WB10-0	WB10-0	1244		1244					

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
 Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

TAT: A= Overnight < 24 hr
 B= Emergency Next workday
 C= Critical 2 Workdays
 D= Urgent 3 Workdays
 E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tealjar G=Glass P=Plastic M=Metal
 Preservatives: H=Hcl N=HNO3 S=H2SO4 C=4°C
 Z=Zn(AC)2 O=NaOH T=Na2S2O3

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

P.O.#: _____ Date: _____
 Logged By: _____
 Method of Transport: Client ATL CA OverN FEDEX Other: _____
 Sample Condition Upon Receipt: 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: _____ Attn: _____
 Address: _____ City: _____ State: _____ Zip Code: _____
 Project #: _____
 Sampler: _____
 Date: 6/22/08 Time: 16:00
 Received by: (Signature and Printed Name) *MS*
 Date: 6/23/08 Time: 9:37
 Relinquished by: (Signature and Printed Name) _____
 Date: _____
 Relinquished by: (Signature and Printed Name) _____
 Date: _____
 Relinquished by: (Signature and Printed Name) _____
 Date: _____

Special Instructions/Comments: _____
 Bill To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Circle or Add Analysis(es) Requested: _____
 808A (Pesticides) _____
 808 (PCB) _____
 8208 (Volatiles) _____
 8270C (BNA) _____
 8018 (Total Metal) _____
 8018B (GRO) / 8020 (GTEX) _____
 8018B (DRO) / 8020 (GTEX) _____
 8021 (GTEX) _____
 TITLE 22 / CAM 17 (6010 / 7000) _____

LAB USE ONLY: Batch #:	Lab No.	Sample Description	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX		CONTAINER(S)	TAT #	Type	REMARKS	QA/QC RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB <input type="checkbox"/> Logcode OTHER
						WATER	GROUND WATER					
106074	11	WB11-0		6/22/08	1251							
	13	WB12-0			1315							
	13	WB13-0			1321							
	14	WB14-0			1336							
	15	WB15-0			1344							
	16	WB16-0			1348							
	17	WB17-0			1403							
	18	WB18-0			1410							
	19	WB19-0			1418							
	20	WB20-0			1441							
	21	WB21-0			1449							

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃
 Routine E=7 Workdays
 Urgent D=3 Workdays
 Critical C=2 Workdays
 Emergency B=Next workday
 Overnight A=≤ 24 hr
 TAT: A= samples received after 3 p.m.
 Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Teclar G=Glass P=Plastic M=Metal
 TAT starts 8 a.m. following day if samples received after 3 p.m.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Sample Condition Upon Receipt

- 1. CHILLED Y N 4. SEALED Y N
- 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
- 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Method of Transport

- Client
- ATL
- CA OverN
- FEDEX
- Other: _____

Special Instructions/Comments:

Method of Transport

- Client
- ATL
- CA OverN
- FEDEX
- Other: _____

Special Instructions/Comments:

Method of Transport

- Client
- ATL
- CA OverN
- FEDEX
- Other: _____

Special Instructions/Comments:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Client: _____ Attn: _____
 Address: _____ City: _____ State: _____ Zip Code: _____
 Project Name: See pg 1 Project #: _____
 Relinquished by: (Signature and Printed Name) _____ Date: 6/22/09 Time: 6:00
 Relinquished by: (Signature and Printed Name) _____ Date: 6/22/09 Time: 9:37
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments: _____
 Bill To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr /Submitter: See pg 1 Date: _____
 Signature: _____
 Print Name: _____
 Date: _____

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
 Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

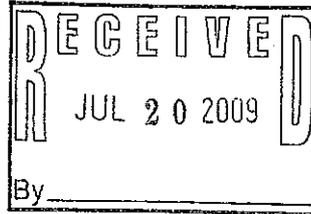
LAB USE ONLY: Batch #:	Lab No.	Sample I.D. / Location	Sample Description	Date		Emergency Next workday	Overnight 5 24 hr	TAT: A= 5 24 hr	Container Types: T=Tube V=VOA L=Liter	B=	Critical 2 Workdays	Urgent 3 Workdays	Routine 7 Workdays	Preservatives: H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
				Time	Time									
106074	32	WB11-4		6/22/09	1257									
	33	WB12-4			1322									
	34	WB13-4			1327									
	35	WB14-4			1337									
	36	WB15-4			1351									
	37	WB16-4			1354									
	38	WB17-4			1409									
	39	WB18-3			1427									
	40	WB19-4			1426									
	41	WB20-1			1438									
	42	WB21-1			1454									

Matrix: _____
 TAT: # _____ Type: _____
 Remarks: _____

July 16, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915



ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106074

RE: I-5 No. Stockton, E8477-06-01

Attention: Lauren Vigliotti

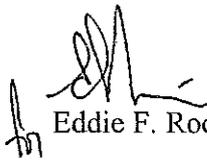
Enclosed are the results for sample(s) received on June 23, 2009 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,


Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: I-5 No. Stockton, E8477-06-01
Lab Order: 106074

CASE NARRATIVE

Analytical Comments for Method 7420

Dilution was necessary for samples 106074-019A, 106074-020A and 106074-021A, due to sample matrix.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 106199-027BMS and 106199-045BMS; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106074
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/23/2009 9:37:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106074-001A	WB1-0	1.2	mg/L	56561	0.25	1	6/22/2009	7/15/2009
106074-003A	WB3-0	0.84	mg/L	56561	0.25	1	6/22/2009	7/15/2009
106074-004A	WB4-0	0.69	mg/L	56561	0.25	1	6/22/2009	7/15/2009
106074-006A	WB6-0	0.76	mg/L	56561	0.25	1	6/22/2009	7/15/2009
106074-007A	WB7-0	1.1	mg/L	56561	0.25	1	6/22/2009	7/15/2009
106074-011A	WB11-0	0.39	mg/L	56561	0.25	1	PACKAGE 2 DATA	
106074-016A	WB16-0	0.97	mg/L	56561	0.25	1	6/22/2009	7/15/2009
106074-019A	WB19-0	19	mg/L	56561	1.2	5	6/22/2009	7/15/2009
106074-020A	WB20-0	23	mg/L	56561	1.2	5	6/22/2009	7/15/2009
106074-021A	WB21-0	11	mg/L	56561	0.50	2	6/22/2009	7/15/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		





Advanced Technology Laboratories

CLIENT: Geocon Consultants, Inc.

Work Order: 106074

Project: I-5 No. Stockton, E8477-06-01

Date: 16-Jul-09

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID:	MB-56561A	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110827
Client ID:	PBS	Batch ID:	56561	TestNo:	WET/EPA 74 WET	Analysis Date:	7/15/2009	SeqNo:	1744422	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	LCS-56561	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L <td>Prep Date:</td> <td>7/13/2009 <td>RunNo:</td> <td>110827</td> </td>	Prep Date:	7/13/2009 <td>RunNo:</td> <td>110827</td>	RunNo:	110827
Client ID:	LCSS	Batch ID:	56561	TestNo:	WET/EPA 74 WET <td>Analysis Date:</td> <td>7/15/2009 <td>SeqNo:</td> <td>1744423 <td>%RPD</td> <td>RPDLimit</td> </td></td>	Analysis Date:	7/15/2009 <td>SeqNo:</td> <td>1744423 <td>%RPD</td> <td>RPDLimit</td> </td>	SeqNo:	1744423 <td>%RPD</td> <td>RPDLimit</td>	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.769	0.25	5.000	0	95.4	80	120				
Sample ID:	106074-021A-DUP	SampType:	DUP	TestCode:	7420_ST	Units:	mg/L <td>Prep Date:</td> <td>7/13/2009 <td>RunNo:</td> <td>110827</td> </td>	Prep Date:	7/13/2009 <td>RunNo:</td> <td>110827</td>	RunNo:	110827
Client ID:	WB21-0	Batch ID:	56561	TestNo:	WET/EPA 74 WET <td>Analysis Date:</td> <td>7/15/2009 <td>SeqNo:</td> <td>1744434 <td>%RPD</td> <td>RPDLimit</td> </td></td>	Analysis Date:	7/15/2009 <td>SeqNo:</td> <td>1744434 <td>%RPD</td> <td>RPDLimit</td> </td>	SeqNo:	1744434 <td>%RPD</td> <td>RPDLimit</td>	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.358	0.50						11.44	0.757	20	
Sample ID:	106074-021A-MS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L <td>Prep Date:</td> <td>7/13/2009 <td>RunNo:</td> <td>110827</td> </td>	Prep Date:	7/13/2009 <td>RunNo:</td> <td>110827</td>	RunNo:	110827
Client ID:	WB21-0	Batch ID:	56561	TestNo:	WET/EPA 74 WET <td>Analysis Date:</td> <td>7/15/2009 <td>SeqNo:</td> <td>1744435 <td>%RPD</td> <td>RPDLimit</td> </td></td>	Analysis Date:	7/15/2009 <td>SeqNo:</td> <td>1744435 <td>%RPD</td> <td>RPDLimit</td> </td>	SeqNo:	1744435 <td>%RPD</td> <td>RPDLimit</td>	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	15.051	1.2	5.000	11.44	72.1	80	120				S
Sample ID:	MB-56561B	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L <td>Prep Date:</td> <td>7/13/2009 <td>RunNo:</td> <td>110827</td> </td>	Prep Date:	7/13/2009 <td>RunNo:</td> <td>110827</td>	RunNo:	110827
Client ID:	PBS	Batch ID:	56561	TestNo:	WET/EPA 74 WET <td>Analysis Date:</td> <td>7/15/2009 <td>SeqNo:</td> <td>1744436 <td>%RPD</td> <td>RPDLimit</td> </td></td>	Analysis Date:	7/15/2009 <td>SeqNo:</td> <td>1744436 <td>%RPD</td> <td>RPDLimit</td> </td>	SeqNo:	1744436 <td>%RPD</td> <td>RPDLimit</td>	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

Sample ID: 106101-124A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110827						
Client ID: ZZZZZZ	Batch ID: 56561	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744448						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.019	0.50						12.79	1.75	20	

Sample ID: 106101-124A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110827						
Client ID: ZZZZZZ	Batch ID: 56561	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	17.960	1.2	5.000	12.79	103	80	120				

Sample ID: 106101-124A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110827						
Client ID: ZZZZZZ	Batch ID: 56561	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744450						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	16.582	1.2	5.000	12.79	75.8	80	120	17.96	7.98	20	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- F Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Diane Galvan

From: Lauren Vigliotti [vigliotti@geoconinc.com]
Sent: Thursday, July 09, 2009 11:10 AM
To: Diane Galvan
Subject: I-5 North Stockton

HI Diane:
Please run the following samples for WET lead, under standard TAT. Please provide results in excel format, thanks!

WO#106074
WB20-o WB19-o WB21-o WB3-o WB11-o WB16-o WB1-o WB4-o WB7-o WB6-o

WO#106077
MB1-o MB24-o MB2-o MB34-o MB19-o

WO#106101
MB92-o MB83-o MB77-o MB78-o MB80-o MB82-o MB86-o MB79-o MB91-o MB90-o MB88-o

WO#106111
MB93-o MB100-o MB109-1 MB97-o MB105-o MB102-o MB94-o MB107-o MB114-o MB108-o MB106-o
MB103-o MB109-o MB95-o
MB98-o MB111-o MB96-o

Thanks!

Lauren Vigliotti
Senior Staff Geologist

Please visit our new website at <http://www.geoconinc.com>

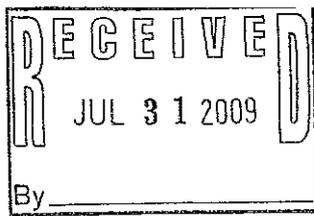
Geocon Consultants, Inc
6671 Brisa Street
Livermore, CA 94550
Tel (925) 371-5900
Cell (925) 768-9874



GEOTECHNICAL ENVIRONMENTAL MATERIALS

San Diego Murrieta Burbank San Bernardino Bakersfield Sacramento Livermore Carson City Las Vegas Portland

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July 27, 2009

Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106074

RE: I-5 No. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 23, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



ANALYTICAL RESULTS

**LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106074
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/23/2009 9:37:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106074-019A	WB19-0	0.45	mg/L	56794	0.25	1	6/22/2009	7/24/2009
106074-020A	WB20-0	ND	mg/L	56747	0.25	1	6/22/2009	7/23/2009
106074-021A	WB21-0	ND	mg/L	56747	0.25	1	6/22/2009	7/23/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106074
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/23/2009 9:37:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106074-019A	WB19-0	ND	mg/L	56843	0.25	1	6/22/2009	7/24/2009
106074-020A	WB20-0	0.49	mg/L	56809	0.25	1	6/22/2009	7/24/2009
106074-021A	WB21-0	0.75	mg/L	56809	0.25	1	6/22/2009	7/24/2009

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out





Advanced Technology Laboratories

CLIENT: Geoson Consultants, Inc.

Work Order: 106074

Project: I-5 No. Stockton, E8477-06-01

Date: 27-Jul-09

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID:	MBLK	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111091
Client ID:	PBS	Batch ID:	56747	TestNo:	WET DI/ EPA	WET		Analysis Date:	7/23/2009	SeqNo:	1749804
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	LCS-56747	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L <td>Prep Date:</td> <td>7/21/2009 <td>RunNo:</td> <td>111091</td> </td>	Prep Date:	7/21/2009 <td>RunNo:</td> <td>111091</td>	RunNo:	111091
Client ID:	LCSS	Batch ID:	56747	TestNo:	WET DI/ EPA	WET		Analysis Date:	7/23/2009 <td>SeqNo:</td> <td>1749805</td>	SeqNo:	1749805
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	4.781	0.25	5.000	0	95.6	80	120				
Sample ID:	106099-016A-DUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L <td>Prep Date:</td> <td>7/21/2009 <td>RunNo:</td> <td>111091</td> </td>	Prep Date:	7/21/2009 <td>RunNo:</td> <td>111091</td>	RunNo:	111091
Client ID:	ZZZZZ	Batch ID:	56747	TestNo:	WET DI/ EPA	WET		Analysis Date:	7/23/2009 <td>SeqNo:</td> <td>1749815</td>	SeqNo:	1749815
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	0.466	0.25						0.5511	16.7	20	
Sample ID:	106099-016A-MS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L <td>Prep Date:</td> <td>7/21/2009 <td>RunNo:</td> <td>111091</td> </td>	Prep Date:	7/21/2009 <td>RunNo:</td> <td>111091</td>	RunNo:	111091
Client ID:	ZZZZZ	Batch ID:	56747	TestNo:	WET DI/ EPA	WET		Analysis Date:	7/23/2009 <td>SeqNo:</td> <td>1749816</td>	SeqNo:	1749816
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	5.139	0.25	5.000	0.5511	91.8	70	130				
Sample ID:	MB-56747B	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L <td>Prep Date:</td> <td>7/21/2009 <td>RunNo:</td> <td>111091</td> </td>	Prep Date:	7/21/2009 <td>RunNo:</td> <td>111091</td>	RunNo:	111091
Client ID:	PBS	Batch ID:	56747	TestNo:	WET DI/ EPA	WET		Analysis Date:	7/23/2009 <td>SeqNo:</td> <td>1749817</td>	SeqNo:	1749817
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_DI

Sample ID: 106099-064A-DUP	SampType: DUP	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111091						
Client ID: ZZZZZZ	Batch ID: 56747	TestNo: WET DI/ EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749827						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0		20

Sample ID: 106099-064A-MS	SampType: MS	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111091						
Client ID: ZZZZZZ	Batch ID: 56747	TestNo: WET DI/ EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749829						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.829	0.25	5.000	0	96.6	70	130				

Sample ID: 106099-064A-MSD	SampType: MSD	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111091						
Client ID: ZZZZZZ	Batch ID: 56747	TestNo: WET DI/ EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749830						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.923	0.25	5.000	0	98.5	70	130	4.829	1.93		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_DI

Sample ID	MB-56794A	SampType: MBLK	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/22/2009	RunNo: 111120					
Client ID	PBS	Batch ID: 56794	TestNo: WET DI/ EPA WET		Analysis Date: 7/24/2009	SeqNo: 1750618					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID	LCS-56794	SampType: LCS	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/22/2009	RunNo: 111120					
Client ID	LCSS	Batch ID: 56794	TestNo: WET DI/ EPA WET		Analysis Date: 7/24/2009	SeqNo: 1750619					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.403	0.25	5.000	0	108	80	120				
Sample ID	106074-019A-DUP	SampType: DUP	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/22/2009	RunNo: 111120					
Client ID	WB19-0	Batch ID: 56794	TestNo: WET DI/ EPA WET		Analysis Date: 7/24/2009	SeqNo: 1750621					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.395	0.25						0.4468	12.3	20	
Sample ID	106074-019A-MS	SampType: MS	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/22/2009	RunNo: 111120					
Client ID	WB19-0	Batch ID: 56794	TestNo: WET DI/ EPA WET		Analysis Date: 7/24/2009	SeqNo: 1750622					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.976	0.25	5.000	0.4468	111	70	130				
Sample ID	106074-019A-MSD	SampType: MSD	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/22/2009	RunNo: 111120					
Client ID	WB19-0	Batch ID: 56794	TestNo: WET DI/ EPA WET		Analysis Date: 7/24/2009	SeqNo: 1750623					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.365	0.25	5.000	0.4468	118	70	130	5.976	6.31	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H 1 holding times for preparation or analysis exceeded
- S Spikes/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_IC

CLIENT: Gecon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

Sample ID:	MB-56809A	SampType:	MBLK	TestCode:	7420_IC	Units:	mg/L	Prep Date:	7/23/2009	RunNo:	111105
Client ID:	PBS	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009	SeqNo:	1750207
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	MB-56783A TCLP	SampType:	MBLK	TestCode:	7420_IC	Units:	mg/L	Prep Date:	7/23/2009 <td>RunNo:</td> <td>111105</td>	RunNo:	111105
Client ID:	PBS	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009 <td>SeqNo:</td> <td>1750208</td>	SeqNo:	1750208
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	LCS-56809	SampType:	LCS	TestCode:	7420_IC	Units:	mg/L	Prep Date:	7/23/2009 <td>RunNo:</td> <td>111105</td>	RunNo:	111105
Client ID:	LCSS	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009 <td>SeqNo:</td> <td>1750209</td>	SeqNo:	1750209
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.186	0.25	1.000	0	119	80	120				
Sample ID:	106099-028A-DUP	SampType:	DUP	TestCode:	7420_IC	Units:	mg/L	Prep Date:	7/23/2009 <td>RunNo:</td> <td>111105</td>	RunNo:	111105
Client ID:	ZZZZZZ	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009 <td>SeqNo:</td> <td>1750218</td>	SeqNo:	1750218
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.378	0.25						0.4193	10.2	20	
Sample ID:	106099-028A-MS	SampType:	MS	TestCode:	7420_IC	Units:	mg/L	Prep Date:	7/23/2009 <td>RunNo:</td> <td>111105</td>	RunNo:	111105
Client ID:	ZZZZZZ	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009 <td>SeqNo:</td> <td>1750220</td>	SeqNo:	1750220
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.719	0.25	2.500	0.4193	92.0	70	130				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_TC

Sample ID	MB-56809B	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105					
Client ID	PBS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750221					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID	MB-56783B	TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105				
Client ID	PBS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A			Analysis Date: 7/24/2009	SeqNo: 1750222				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID	106121-052A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105					
Client ID	ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A			Analysis Date: 7/24/2009	SeqNo: 1750233				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	
Sample ID	106121-052A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105					
Client ID	ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A			Analysis Date: 7/24/2009	SeqNo: 1750234				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.831	0.25	2.500	0	113	70	130				
Sample ID	106121-052A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105					
Client ID	ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A			Analysis Date: 7/24/2009	SeqNo: 1750235				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.946	0.25	2.500	0	118	70	130	2.831	3.99	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

CLIENT: Geokon Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

Sample ID:	MB-56843	SampType:	MBLK	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/24/2009	RunNo:	111123
Client ID:	PBS	Batch ID:	56843	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009	SeqNo:	1750644
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	MB-56836A TCLP	SampType:	MBLK	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/24/2009 <td>RunNo:</td> <td>111123</td>	RunNo:	111123
Client ID:	PBS	Batch ID:	56843	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009	SeqNo:	1750645
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	LCS-56843	SampType:	LCS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/24/2009	RunNo:	111123
Client ID:	LCSS	Batch ID:	56843	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009	SeqNo:	1750646
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.877	0.25	1.000	0	87.7	80	120				
Sample ID:	106074-019A-DUP	SampType:	DUP	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/24/2009	RunNo:	111123
Client ID:	WB19-0	Batch ID:	56843	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009	SeqNo:	1750648
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	106074-019A-MS	SampType:	MS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/24/2009	RunNo:	111123
Client ID:	WB19-0	Batch ID:	56843	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009	SeqNo:	1750649
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.999	0.25	2.500	0	120	70	130				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spikes/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 106074
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_TC

Sample ID: 106074-019A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/24/2009	RunNo: 111123						
Client ID: WB19-0	Batch ID: 56843	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750650						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.789	0.25	2.500	0	112	70	130	2.999	7.24	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- F Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Diane Galvan

From: Lauren Vigliotti [vigliotti@geoconinc.com]
Sent: Monday, July 20, 2009 4:19 PM
To: Diane Galvan
Subject: I-5 North Stockton

Hi Diane:
Please run the following for soluble lead under standard TAT:

WO#106074 –
WET-DI and TCLP: WB21-0 WB20-0 WB19-0

WO#106077 –
WET-DI only: MB2-0
WET-DI and TCLP: MB1-0

WO#106099 –
WET-DI only: SB4-0 SB22-0 SB20-0 SB18-2 SB17-0 SB14-0 SB13-0 SB12-0
WET-DI and TCLP: SB2-0 SB3-0 SB5-0 SB6-0 SB7-0 SB11-0 SB10-0

WO#106101 –
WET-DI only: MB79-0 MB91-0 MB90-0
WET-DI and TCLP: MB92-0 MB83-0 MB82-0 MB78-0

WO#106111 –
WET-DI only: MB107-0
WET-DI and TCLP: MB97-0 MB93-0 MB100-0

WO#106121 –
WET-DI only: SB70-0 SB60-1 SB51-0
WET-DI and TCLP: SB69-0 SB68-0 SB67-0 SB65-0 SB60-0 SB59-0 SB56-0 SB55-0 SB47-0

Thanks!

Lauren Vigliotti
Senior Staff Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc

6671 Brisa Street
Livermore, CA 94550
Tel (925) 371-5900
Cell (925) 768-9874

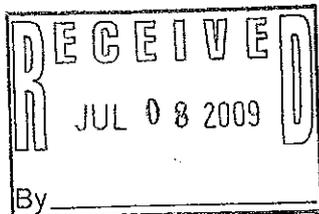


GEOTECHNICAL ENVIRONMENTAL MATERIALS

San Diego Murrieta Burbank San Bernardino Bakersfield Sacramento Livermore Carson City Las Vegas Portland

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7/20/2009



June 29, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106077

RE: I-5 N. Stockton, E8477-06-01

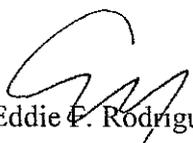
Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 23, 2009 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,


Eddie P. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: I-5 N. Stockton, E8477-06-01
Lab Order: 106077

CASE NARRATIVE

Analytical Comments for Method 6010

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 106077-010AMS, 106077-020AMS, 106077-020AMSD, 106077-040AMS and 106077-040AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Duplicate (DUP) is outside criteria for samples 106077-010ADUP, 106077-030ADUP, 106077-070ADUP and 106177-100ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106077
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/23/2009 9:37:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106077-001A	MB1-0	100	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-002A	MB1-1	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-003A	MB1-2	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-004A	MB2-0	93	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-005A	MB2-1	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-006A	MB2-2	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-007A	MB3-0	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-008A	MB3-1	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-009A	MB3-2	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-010A	MB4-0	14	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-011A	MB4-1	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-012A	MB4-2	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-013A	MB5-0	35	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-014A	MB5-1	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-015A	MB5-2	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-016A	MB6-0	11	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-017A	MB6-1	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-018A	MB6-2	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106077
Project:	1-5 N. Stockton, E8477-06-01	Date Received	6/23/2009 9:37:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106077-019A	MB7-0	5.3	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-020A	MB7-1	ND	mg/Kg	56158	5.0	1	6/22/2009	6/26/2009
106077-021A	MB7-2	ND	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-022A	MB8-0	28	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-023A	MB8-1	ND	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-024A	MB8-2	ND	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-025A	MB9-0	7.3	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-026A	MB9-1	ND	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-027A	MB9-2	ND	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-028A	MB10-0	16	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-029A	MB10-1	5.2	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-030A	MB10-2	ND	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-031A	MB11-0	37	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-032A	MB11-1	6.7	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-033A	MB11-2	ND	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-034A	MB12-0	31	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-035A	MB12-1	ND	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-036A	MB12-2	ND	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106077
Project:	1-5 N. Stockton, E8477-06-01	Date Received	6/23/2009 9:37:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106077-037A	MB13-0	ND	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-038A	MB13-1	ND	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-039A	MB13-2	ND	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-040A	MB14-0	24	mg/Kg	56159	5.0	1	6/22/2009	6/26/2009
106077-041A	MB14-1	ND	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-042A	MB14-2	ND	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-043A	MB15-0	14	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-044A	MB15-1	ND	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-045A	MB15-2	ND	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-046A	MB16-0	16	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-047A	MB16-1	ND	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-048A	MB16-2	5.2	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-049A	MB17-0	30	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-050A	MB17-1	ND	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-051A	MB17-2	ND	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-052A	MB18-0	37	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-053A	MB18-1	ND	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-054A	MB18-2	ND	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106077
Project:	1-5 N. Stockton, E8477-06-01	Date Received	6/23/2009 9:37:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106077-055A	MB19-0	73	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-056A	MB19-1	ND	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-057A	MB19-2	ND	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-058A	MB20-0	16	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-059A	MB20-1	5.5	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-060A	MB20-2	ND	mg/Kg	56160	5.0	1	6/22/2009	6/26/2009
106077-061A	MB21-0	19	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-062A	MB21-1	ND	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-063A	MB21-2	ND	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-064A	MB22-0	31	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-065A	MB22-1	14	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-066A	MB22-2	ND	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-067A	MB23-0	ND	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-068A	MB23-1	ND	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-069A	MB23-2	ND	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-070A	MB24-0	99	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-071A	MB24-1	ND	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-072A	MB24-2	ND	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106077
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/23/2009 9:37:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106077-073A	MB25-0	21	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-074A	MB25-1	8.7	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-075A	MB25-2	ND	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-076A	MB26-0	32	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-077A	MB26-1	ND	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-078A	MB26-2	ND	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-079A	MB27-0	46	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-080A	MB27-1	ND	mg/Kg	56161	5.0	1	6/22/2009	6/26/2009
106077-081A	MB27-2	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-082A	MB28-0	35	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-083A	MB28-1	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-084A	MB28-2	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-085A	MB29-0	22	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-086A	MB29-1	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-087A	MB29-2	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-088A	MB30-0	16	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-089A	MB30-1	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-090A	MB30-2	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Consultants, Inc. **Lab Order:** 106077
Project: I-5 N. Stockton, E8477-06-01 **Date Received:** 6/23/2009 9:37:00 AM
Project No: **Matrix:** Soil
Analyte: Lead **Analyst:** SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106077-091A	MB31-0	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-092A	MB31-1	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-093A	MB31-2	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-094A	MB31-3	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-095A	MB32-1	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-096A	MB32-2	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-097A	MB33-0	11	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-098A	MB33-1	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-099A	MB33-2	ND	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-100A	MB34-1	81	mg/Kg	56162	5.0	1	6/22/2009	6/26/2009
106077-101A	MB34-2	ND	mg/Kg	56163	5.0	1	6/22/2009	6/26/2009
106077-102A	MB34-3	ND	mg/Kg	56163	5.0	1	6/22/2009	6/26/2009
106077-103A	MB35-0	9.1	mg/Kg	56163	5.0	1	6/22/2009	6/26/2009
106077-104A	MB35-1	ND	mg/Kg	56163	5.0	1	6/22/2009	6/26/2009
106077-105A	MB35-2	ND	mg/Kg	56163	5.0	1	6/22/2009	6/26/2009
106077-106A	MB36-0	8.7	mg/Kg	56163	5.0	1	6/22/2009	6/26/2009
106077-107A	MB36-1	ND	mg/Kg	56163	5.0	1	6/22/2009	6/26/2009
106077-108A	MB36-2	ND	mg/Kg	56163	5.0	1	6/22/2009	6/26/2009

PACKAGE 2 DATA

PACKAGE 2 DATA

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Consultants, Inc.
Project: I-5 N. Stockton, E8477-06-01
Project No:
Analyte: Lead

Lab Order: 106077
Date Received: 6/23/2009 9:37:00 AM
Matrix: Soil
Analyst: SRB

Laboratory ID	Client Sample ID	Results	Batch	PQL	DF	Date Collected
106077-109A	MB37-0		56163	5.0	1	6/22/2009
106077-110A	MB37-1	<g	56163	5.0	1	6/22/2009
106077-111A	MB37	mg/Kg	56163	5.0	1	6/22/2009
106077-112A		mg/Kg	56163	5.0	1	6/26/2009
106077-113A		ND mg/Kg	56163	5.0		6/26/2009
106077-114A		ND mg/Kg	56163	5.0		6/26/2009
106077-115A		10 mg/Kg	56163			6/26/2009
106077-116A	MB39-1	ND mg/Kg	56163			6/22/2009 6/26/2009
106077-117A	MB39-2	ND mg/Kg	56163			6/22/2009 6/26/2009
106077-118A	MB40-0	16 mg/Kg			1	6/22/2009 6/26/2009
106077-119A	MB40-1	ND mg/K		5.0	1	6/22/2009 6/26/2009
106077-120A	MB40-2	ND		5.0	1	6/22/2009 6/26/2009

PACKAGE 2 DATA

Qualifiers: B Analyte detected Method Blank E Value above quantitation range
 H Holding times for digestion or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



ANALYTICAL RESULTS

**pH
EPA 9045C**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106077
Project:	I-5 N. Stockton, E8477-06-01	Date Received:	6/23/2009 9:37:00 AM
Project No:		Matrix:	Soil
Analyte:	pH	Analyst:	DDL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106077-001A	MB1-0	7.5	pH Units	R110218	0.10	1	6/22/2009	6/25/2009
106077-012A	MB4-2	7.0	pH Units	R110218	0.10	1	6/22/2009	6/25/2009
106077-023A	MB8-1	7.1	pH Units	R110218	0.10	1	6/22/2009	6/25/2009
106077-034A	MB12-0	6.9	pH Units	R110218	0.10	1	6/22/2009	6/25/2009
106077-045A	MB15-2	7.3	pH Units	R110218	0.10	1	6/22/2009	6/25/2009
106077-056A	MB19-1	8.0	pH Units	R110218	0.10	1	6/22/2009	6/25/2009
106077-067A	MB23-0	7.9	pH Units	R110218	0.10	1	6/22/2009	6/25/2009
106077-078A	MB26-2	7.7	pH Units	R110218	0.10	1	6/22/2009	6/25/2009
106077-089A	MB30-1	8.0	pH Units	R110218	0.10	1	6/22/2009	6/25/2009
106077-091A	MB31-0	8.4	pH Units	R110218	0.10	1	6/22/2009	6/25/2009
106077-103A	MB34-2	8.2	pH Units	R110218	0.10	1	6/22/2009	6/25/2009
106077-113A	MB38	7.1	pH Units	R110218	0.10	1	6/22/2009	6/25/2009

PACKAGE 2 DATA

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		





Date: 29-Jun-09

Advanced Technology Laboratories

CLIENT: Gcocon Consultants, Inc.

Work Order: 106077

Project: I-5 N. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID:	MB-56158A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009	RunNo:	110267
Client ID:	PBS	Batch ID:	56158	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009	SeqNo:	1732776
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									
Sample ID:	LCS-56158	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009 <td>RunNo:</td> <td>110267</td>	RunNo:	110267
Client ID:	LCSS	Batch ID:	56158	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009 <td>SeqNo:</td> <td>1732777</td>	SeqNo:	1732777
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	278.772	5.0	250.0	0	112	80	120				
Sample ID:	106077-010A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009 <td>RunNo:</td> <td>110267</td>	RunNo:	110267
Client ID:	MB4-0	Batch ID:	56158	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009 <td>SeqNo:</td> <td>1732788</td>	SeqNo:	1732788
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.296	5.0						14.08	31.1	20	R
Sample ID:	106077-010A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009 <td>RunNo:</td> <td>110267</td>	RunNo:	110267
Client ID:	MB4-0	Batch ID:	56158	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009 <td>SeqNo:</td> <td>1732789</td>	SeqNo:	1732789
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	344.001	5.0	250.0	14.08	132	33	120				S
Sample ID:	MB-56158B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009 <td>RunNo:</td> <td>110267</td>	RunNo:	110267
Client ID:	PBS	Batch ID:	56158	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009 <td>SeqNo:</td> <td>1732790</td>	SeqNo:	1732790
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- IX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.

Work Order: 106077

Project: 1-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID:	106077-020A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009	RunNo:	110267
Client ID:	MB7-1	Batch ID:	56158	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009	SeqNo:	1732801
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.794	5.0						2.885	0	20	
Sample ID:	106077-020A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009	RunNo:	110267
Client ID:	MB7-1	Batch ID:	56158	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009	SeqNo:	1732802
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	361.531	5.0	250.0	2.885	143	33	120				S
Sample ID:	106077-020A-MSD	SampType:	MSD	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009	RunNo:	110267
Client ID:	MB7-1	Batch ID:	56158	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009	SeqNo:	1732803
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	371.350	5.0	250.0	2.885	147	33	120	361.5	2.68	20	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106077

Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID	MB-56159A	SampType	MBLK	TestCode	6010_SPB	Units	mg/Kg	Prep Date	6/25/2009	RunNo	110275
Client ID	PBS	Batch ID	56159	TestNo	EPA 6010B	EPA	3050M	Analysis Date	6/26/2009	SeqNo	1732929
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND		5.0								
Sample ID	LCS-56159	SampType	LCS	TestCode	6010_SPB	Units	mg/Kg	Prep Date	6/25/2009 <td>RunNo</td> <td>110275</td>	RunNo	110275
Client ID	LCSS	Batch ID	56159	TestNo	EPA 6010B	EPA	3050M	Analysis Date	6/26/2009 <td>SeqNo</td> <td>1732930</td>	SeqNo	1732930
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit</td> <td>Qual</td> </td>	LowLimit	HighLimit	RPD Ref Val	%RPD <td>RPDLimit</td> <td>Qual</td>	RPDLimit	Qual
Lead	274.322	5.0	250.0	0	110	80	120				
Sample ID	106077-030A-DUP	SampType	DUP	TestCode	6010_SPB	Units	mg/Kg	Prep Date	6/25/2009 <td>RunNo</td> <td>110275</td>	RunNo	110275
Client ID	MB10-2	Batch ID	56159	TestNo	EPA 6010B	EPA	3050M	Analysis Date	6/26/2009 <td>SeqNo</td> <td>1732941</td>	SeqNo	1732941
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit</td> <td>Qual</td> </td>	LowLimit	HighLimit	RPD Ref Val	%RPD <td>RPDLimit</td> <td>Qual</td>	RPDLimit	Qual
Lead	7.285	5.0						3.890	60.8	20	R
Sample ID	106077-030A-MS	SampType	MS	TestCode	6010_SPB	Units	mg/Kg	Prep Date	6/25/2009 <td>RunNo</td> <td>110275</td>	RunNo	110275
Client ID	MB10-2	Batch ID	56159	TestNo	EPA 6010B	EPA	3050M	Analysis Date	6/26/2009 <td>SeqNo</td> <td>1732942</td>	SeqNo	1732942
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit</td> <td>Qual</td> </td>	LowLimit	HighLimit	RPD Ref Val	%RPD <td>RPDLimit</td> <td>Qual</td>	RPDLimit	Qual
Lead	289.275	5.0	250.0	3.890	114	33	120				
Sample ID	MB-56159B	SampType	MBLK	TestCode	6010_SPB	Units	mg/Kg	Prep Date	6/25/2009 <td>RunNo</td> <td>110275</td>	RunNo	110275
Client ID	PBS	Batch ID	56159	TestNo	EPA 6010B	EPA	3050M	Analysis Date	6/26/2009 <td>SeqNo</td> <td>1732943</td>	SeqNo	1732943
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit</td> <td>Qual</td> </td>	LowLimit	HighLimit	RPD Ref Val	%RPD <td>RPDLimit</td> <td>Qual</td>	RPDLimit	Qual
Lead	ND		5.0								

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106077
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID:	106077-040A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009	RunNo:	110275
Client ID:	MB14-0	Batch ID:	56159	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009	SeqNo:	1732954
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	21.509	5.0						24.27		12.1	20
Sample ID:	106077-040A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009	RunNo:	110275
Client ID:	MB14-0	Batch ID:	56159	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009	SeqNo:	1732955
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	370.547	5.0	250.0	24.27	139	33	120				S
Sample ID:	106077-040A-MSD	SampType:	MSD	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009	RunNo:	110275
Client ID:	MB14-0	Batch ID:	56159	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009	SeqNo:	1732956
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	365.844	5.0	250.0	24.27	137	33	120	370.5	1.28	20	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106077
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: MB-56160A	Samp Type: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110276						
Client ID: PBS	Batch ID: 56160	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1732957						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-56160	Samp Type: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110276						
Client ID: LCSS	Batch ID: 56160	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1732958						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	263.613	5.0	250.0	0	105	80	120				

Sample ID: 106077-050A-DUP	Samp Type: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110276						
Client ID: MB17-1	Batch ID: 56160	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1732969						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.989	5.0				3.634	0	20			

Sample ID: 106077-050A-MS	Samp Type: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110276						
Client ID: MB17-1	Batch ID: 56160	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1732970						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	180.955	5.0	250.0	3.634	70.9	33	120				

Sample ID: MB-56160B	Samp Type: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110276						
Client ID: PBS	Batch ID: 56160	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1732971						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocon Consultants, Inc.
Work Order: 106077
Project: I-5 N; Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106077-060A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110276						
Client ID: MB20-2	Batch ID: 56160	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1732982						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.420	5.0						2.759	0	20	

Sample ID: 106077-060A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110276						
Client ID: MB20-2	Batch ID: 56160	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1732983						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	182.030	5.0	250.0	2.759	71.7	33	120				

Sample ID: 106077-060A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110276						
Client ID: MB20-2	Batch ID: 56160	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1732984						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	183.486	5.0	250.0	2.759	72.3	33	120	182.0	0.797	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 106077
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: MB-56161A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110278
Client ID: PBS	Batch ID: 56161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1732993
Analyte	Result	PQL	SPK value	SPK RefVal	%REC
				HighLimit	RPD RefVal
				LowLimit	RPDLimit
					Qual

Sample ID: LCS-56161	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110278
Client ID: LCSS	Batch ID: 56161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1732994
Analyte	Result	PQL	SPK value	SPK RefVal	%REC
				HighLimit	RPD RefVal
				LowLimit	RPDLimit
					Qual

Sample ID: 106077-070A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110278
Client ID: MB24-0	Batch ID: 56161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1733005
Analyte	Result	PQL	SPK value	SPK RefVal	%REC
				HighLimit	RPD RefVal
				LowLimit	RPDLimit
					Qual

Sample ID: 106077-070A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110278
Client ID: MB24-0	Batch ID: 56161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1733006
Analyte	Result	PQL	SPK value	SPK RefVal	%REC
				HighLimit	RPD RefVal
				LowLimit	RPDLimit
					Qual

Sample ID: MB-56161B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110278
Client ID: PBS	Batch ID: 56161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1733007
Analyte	Result	PQL	SPK value	SPK RefVal	%REC
				HighLimit	RPD RefVal
				LowLimit	RPDLimit
					Qual

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 (X) Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

CLIENT: Gevecon Consultants, Inc.

Work Order: 106077

Project: I-5 N. Stockton, E8477-06-01

Sample ID: 106077-080A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110278						
Client ID: MB27-1	Batch ID: 56161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1733018						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	2.896	5.0						2.408	0	20	

Sample ID: 106077-080A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110278						
Client ID: MB27-1	Batch ID: 56161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1733019						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	180.014	5.0	250.0	2.408	71.0	33	120				

Sample ID: 106077-080A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110278						
Client ID: MB27-1	Batch ID: 56161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1733020						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	192.851	5.0	250.0	2.408	76.2	33	120	180.0	6.89	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - R RPD outside accepted recovery limits
 - H Folding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
- Calculations are based on mv values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106077
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID:	MB-56162A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009	RunNo:	110280
Client ID:	PBS	Batch ID:	56162	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009	SeqNo:	1733027
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									
Sample ID:	LCS-56162	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/25/2009 <td>RunNo:</td> <td>110280</td> </td>	Prep Date:	6/25/2009 <td>RunNo:</td> <td>110280</td>	RunNo:	110280
Client ID:	LCSS	Batch ID:	56162	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/26/2009 <td>SeqNo:</td> <td>1733028</td> </td>	Analysis Date:	6/26/2009 <td>SeqNo:</td> <td>1733028</td>	SeqNo:	1733028
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit</td> <td>Qual</td> </td>	LowLimit	HighLimit	RPD Ref Val	%RPD <td>RPDLimit</td> <td>Qual</td>	RPDLimit	Qual
Lead	261.004	5.0	250.0	0	104	80	120				
Sample ID:	106077-090A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/25/2009 <td>RunNo:</td> <td>110280</td> </td>	Prep Date:	6/25/2009 <td>RunNo:</td> <td>110280</td>	RunNo:	110280
Client ID:	MB30-2	Batch ID:	56162	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/26/2009 <td>SeqNo:</td> <td>1733039</td> </td>	Analysis Date:	6/26/2009 <td>SeqNo:</td> <td>1733039</td>	SeqNo:	1733039
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit</td> <td>Qual</td> </td>	LowLimit	HighLimit	RPD Ref Val	%RPD <td>RPDLimit</td> <td>Qual</td>	RPDLimit	Qual
Lead	3.671	5.0						1.810	0	20	
Sample ID:	106077-090A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/25/2009 <td>RunNo:</td> <td>110280</td> </td>	Prep Date:	6/25/2009 <td>RunNo:</td> <td>110280</td>	RunNo:	110280
Client ID:	MB30-2	Batch ID:	56162	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/26/2009 <td>SeqNo:</td> <td>1733040</td> </td>	Analysis Date:	6/26/2009 <td>SeqNo:</td> <td>1733040</td>	SeqNo:	1733040
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit</td> <td>Qual</td> </td>	LowLimit	HighLimit	RPD Ref Val	%RPD <td>RPDLimit</td> <td>Qual</td>	RPDLimit	Qual
Lead	190.405	5.0	250.0	1.810	75.4	33	120				
Sample ID:	MB-56162B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/25/2009 <td>RunNo:</td> <td>110280</td> </td>	Prep Date:	6/25/2009 <td>RunNo:</td> <td>110280</td>	RunNo:	110280
Client ID:	PBS	Batch ID:	56162	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/26/2009 <td>SeqNo:</td> <td>1733041</td> </td>	Analysis Date:	6/26/2009 <td>SeqNo:</td> <td>1733041</td>	SeqNo:	1733041
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit</td> <td>Qual</td> </td>	LowLimit	HighLimit	RPD Ref Val	%RPD <td>RPDLimit</td> <td>Qual</td>	RPDLimit	Qual
Lead	0.114	5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- U Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106077
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106077-100A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110280						
Client ID: MB34-0	Batch ID: 56162	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1733052						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	19.291	5.0						80.84	123	20	R

Sample ID: 106077-100A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110280						
Client ID: MB34-0	Batch ID: 56162	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1733053						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	195.094	5.0	250.0	80.84	45.7	33	120				

Sample ID: 106077-100A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110280						
Client ID: MB34-0	Batch ID: 56162	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1733054						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	197.792	5.0	250.0	80.84	46.8	33	120	195.1	1.37	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106077
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID:	MB-56163A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/25/2009	RunNo:	110283
Client ID:	PBS	Batch ID:	56163	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/26/2009	SeqNo:	1733175
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									
Sample ID:	LCS-56163	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/25/2009 <td>RunNo:</td> <td>110283</td> </td>	Prep Date:	6/25/2009 <td>RunNo:</td> <td>110283</td>	RunNo:	110283
Client ID:	LCSS	Batch ID:	56163	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/26/2009 <td>SeqNo:</td> <td>1733176</td> </td>	Analysis Date:	6/26/2009 <td>SeqNo:</td> <td>1733176</td>	SeqNo:	1733176
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	254.113	5.0	250.0	0	102	80	120				
Sample ID:	106077-110A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/25/2009 <td>RunNo:</td> <td>110283</td> </td>	Prep Date:	6/25/2009 <td>RunNo:</td> <td>110283</td>	RunNo:	110283
Client ID:	MB37-1	Batch ID:	56163	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/26/2009 <td>SeqNo:</td> <td>1733187</td> </td>	Analysis Date:	6/26/2009 <td>SeqNo:</td> <td>1733187</td>	SeqNo:	1733187
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.618	5.0						2.604	0	20	
Sample ID:	106077-110A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/25/2009 <td>RunNo:</td> <td>110283</td> </td>	Prep Date:	6/25/2009 <td>RunNo:</td> <td>110283</td>	RunNo:	110283
Client ID:	MB37-1	Batch ID:	56163	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/26/2009 <td>SeqNo:</td> <td>1733188</td> </td>	Analysis Date:	6/26/2009 <td>SeqNo:</td> <td>1733188</td>	SeqNo:	1733188
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	171.967	5.0	250.0	2.604	67.7	33	120				
Sample ID:	MB-56163A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/25/2009 <td>RunNo:</td> <td>110283</td> </td>	Prep Date:	6/25/2009 <td>RunNo:</td> <td>110283</td>	RunNo:	110283
Client ID:	PBS	Batch ID:	56163	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/26/2009 <td>SeqNo:</td> <td>1733189</td> </td>	Analysis Date:	6/26/2009 <td>SeqNo:</td> <td>1733189</td>	SeqNo:	1733189
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 IX Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

CLIENT: Gecon Consultants, Inc.
Work Order: 106077
Project: I-5 N. Stockton, E8477-06-01

Sample ID	106077-120A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110283					
Client ID	MB40-2	Batch ID: 56163	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1733200					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.522	5.0						2.813	0	20	
Sample ID	106077-120A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110283					
Client ID	MB40-2	Batch ID: 56163	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1733201					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	191.271	5.0	250.0	2.813	75.4	33	120				
Sample ID	106077-120A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/25/2009	RunNo: 110283					
Client ID	MB40-2	Batch ID: 56163	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/26/2009	SeqNo: 1733202					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	177.513	5.0	250.0	2.813	69.9	33	120	191.3	7.46	20	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DX Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spikes/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106077
Project: I-5 N. Stockton, E8477-06-01

TestCode: 9045_S

Sample ID: 106077-091ADUP	SampleType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 110218						
Client ID: MB31-0	Batch ID: R110218	TestNo: EPA 9045C		Analysis Date: 6/25/2009	SeqNo: 1731940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.390	0.10						8.360	0.358		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- NID Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gencon Consultants, Inc.
Work Order: 106077
Project: I-5 N. Stockton, E8477-06-01

TestCode: 9045_S

Sample ID: 106077-113ADUP	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 110219						
Client ID: MB38-1	Batch ID: R110219	TestNo: EPA 9045C		Analysis Date: 6/25/2009	SeqNo: 1731943						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.100	0.10						8.080	0.247	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- N/D Not Detected at the Reporting Limit
- DC Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on rtw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

P.O.#: _____
 Logged By: _____
 Date: 6/23/07

Method of Transport
 Client
 ATL
 CA OverN
 FEDEX
 Other: UPS

1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SFLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: Green Consultants City: Livermore State: CA Zip Code: 94550
 Attn: _____
 Project Name: 1-5 N. Stockton Project #: 88477-002 Sampler: Lauren Viglioth
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/22/07 Time: 10:00
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments:
10% - random pH.
donot composite

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
 Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Batch #:	Lab No.	Sample Description	Date		Time	Q / A / Q / C
				Sample I.D. / Location	Date		
	106077	- 0112	MB1 - 0, 1, 1, 2	6/22	0920		
		- 4/4	MB2 - 0, 1, 1, 2		0905		
		- 7/9	MB3 - 0, 1, 1, 2		0910		
		- 10/12	MB4 - 0, 1, 1, 2		0915		
		- 13/15	MB5 - 0, 1, 1, 2		0920		
		- 16/18	MB6 - 0, 1, 1, 2		0930		
		- 19/21	MB7 - 0, 1, 1, 2		0944		
		- 22/24	MB8 - 0, 1, 1, 2		0955		
		- 25/27	MB9 - 0, 1, 1, 2		1000		
		- 28/30	MB10 - 0, 1, 1, 2		1010		

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday
 Container Types: T=Tube V=VOA L=Liter
 Critical 2 Workdays C= Urgent 3 Workdays D= Routine 7 Workdays E=

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technologies Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Client: Gecon Lauren Vignotti
 Attn: Lauren Vignotti

Project Name: 1-5 N Station Project #: 5477-601 Sampler: Lauren Vignotti
 Relinquished by: Lauren Vignotti Date: 6/23/07 Time: 9:37
 Relinquished by: Lauren Vignotti Date: 6/23/07 Time: 9:37
 Relinquished by: Lauren Vignotti Date: 6/23/07 Time: 9:37

Method of Transport: Client ATL CA OverN FEDEX Other: UPS

Sample Condition Upon Receipt: 1. CHILLED 2. HEADSPACE (NOA) 3. CONTAINER INTACT 4. SEALED 5. # OF SFLS MATCH COC 6. PRESERVED

P.O.#: _____ Date: 6/23/07
 Logged By: _____

Address: Livermore CA State: CA Zip Code: _____
 City: _____ State: _____ Zip: _____

TEL: () _____ FAX: () _____

Bill To: Santeos above
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Circle or Add Analyst(s) Requested: _____
 801A (Pesticides) _____
 802 (PCB) _____
 8250B (Volatiles) _____
 8270C (BNA) _____
 8010B (Total Metals) _____
 8015B (GRO) / 8020 (BTEX) _____
 8015B (PHO) _____
 8021 (BTEX) _____
 TITLE 22 / CAM 17 (6010 / 700) _____

Special Instructions/Comments: see pg. 1

LAB USE ONLY: Batch #:	Lab No.	Sample I.D. / Location	Date	Time	Sample Description	SPECIFY APPROPRIATE MATRIX			CONTAINER(S) # Type	QA/QC RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/>	REMARKS
						SOIL	GROUND WATER	WASTEWATER			
106077	-31/33	MB11 - 0,1,1,2	6/22	1030		<input checked="" type="checkbox"/>			E 3 P		
	-34/36	MB12 - 0,1,1,2		1030							
	-37/39	MB13 - 0,1,1,2		1040							
	-40/42	MB14 - 0,1,1,2		1050							
	-43/45	MB15 - 0,1,1,2		1100							
	-46/48	MB16 - 0,1,1,2		1110							
	-49/51	MB17 - 0,1,1,2		1120							
	-52/54	MB18 - 0,1,1,2		1130							
	-55/57	MB19 - 0,1,1,2		1140							
	-58/60	MB20 - 0,1,1,2		1150							

TAT: A = Overnight ≤ 24 hr B = Next workday C = Critical 2 Workdays D = Urgent 3 Workdays E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Feclar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂SO₄

• TAT starts 8 a.m. following day if samples received after 3 p.m.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Client: Geon
 Attn: Lauren Vialtoth
 Project Name: 1-5 N. Stockton
 Relinquished by: (Signature and Printed Name) Lauren Vialtoth
 Relinquished by: (Signature and Printed Name) Lauren Vialtoth
 Relinquished by: (Signature and Printed Name) Lauren Vialtoth

Method of Transport: Client ATL CA OverN FEDEX Other: UPS

Sample Condition Upon Receipt:
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (NOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

P.O.#: _____ Date: 6/23/09
 Logged By: _____

Address: Livermore CA State: CA Zip Code: _____
 City: _____ State: _____ Zip: _____
 Project #: 28477 Sampler: Lauren Vialtoth
 Received by: (Signature and Printed Name) Lauren Vialtoth Date: 6/23/09 Time: 9:37
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments: See PG. 1

Bill To: _____
 Attn: Same as above
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Circle or Add Analysis(es) Requested: _____
 801A (Pesticides) _____
 802 (PCB) _____
 808 (Volatiles) _____
 827C (BNA) _____
 801B (Total Metals) _____
 801B (GRO) / 802 (BTEX) _____
 801B (GRO) _____
 801 (BTEX) _____
 TITLE 22 / CAM 17 (6010 / 7000) _____

SPECIFY APPROPRIATE MATRIX: _____
 Container(s) # Type _____
 WATER _____
 GROUND WATER _____
 WASTEWATER _____
 SOIL _____

Q / A / Q C
 RINE _____
 CT _____
 SWRCB _____
 Logcode _____
 OTHER _____
 REMARKS _____

Thereby authorize ATL to perform the work indicated below:
 Project Mgr/Submitter: Lauren Vialtoth Date: 6/22/09
 Title: _____ Signature: _____

Send Report To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Sample Records - Archival & Disposal!
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Batch #:	Lab No.	Sample Description	Date	Time
	106077	- 6163	MB21 - 01112	6/22	1200
		- 6464	MB22 - 01112		1210
		- 6769	MB23 - 01112		1220
		- 7072	MB24 - 01112		1230
		- 7175	MB25 - 01112		1240
		- 7478	MB26 - 01112		1250
		- 7781	MB27 - 01112		1300
		- 8184	MB28 - 01112		1310
		- 8587	MB29 - 01112		1320
		- 8890	MB30 - 01112		1330

TAT: A= Overnight ≤ 24 hr
 B= Emergency Next workday
 C= Critical 2 Workdays
 D= Urgent 3 Workdays
 E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
 H=Hcl N=HNO3 S=H2SO4 C=4°C
 O=NaOH T=Na2S2O3
 Z=Zn(AC)2

• TAT starts 8 a.m. following day if samples received after 3 p.m.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 - Fax (562) 989-4040

P.O.#: _____ Date: 6/23/11
 Logged By: [Signature]

Method of Transport
 Client
 ATL
 CA OverN
 FEDEX
 Other: UPS

Sample Condition Upon Receipt
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: Secon City: Livermore State: CA Zip Code: _____
 Attn: Lauren Vigliotti (Printed Name) Sampler: Lauren Vigliotti (Signature)
 Project Name: 15 N Stockton Project #: BY477601 Received by: [Signature] Date: 6/23/11 Time: 9:37
 Relinquished by: [Signature] Date: 6/22/11 Time: _____
 Relinquished by: [Signature] Date: _____ Time: _____
 Relinquished by: [Signature] Date: _____ Time: _____

Thereby authorize ATL to perform the work indicated below:
 Project Mgr (Submitter): Lauren Vigliotti
 Project Mgr (Signature): [Signature] City: _____ State: _____ Zip: _____
 Sent Report To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Bill To: _____
 Attn: _____
 Co: Secon
 Address: _____
 City: _____ State: _____ Zip: _____

Special Instructions/Comments:
see pg 1

ITEM	LAB USE ONLY: Batch #: Lab No. #	Sample Description	Date	Time	SPECIFY APPROPRIATE MATRIX		CONTAINERS		QA/QC								
					WATER	GROUND WATER	WASTEWATER	SOIL		#	Type	RTNE <input type="checkbox"/>	CT <input checked="" type="checkbox"/>	SWRCB <input type="checkbox"/>	Logcode <input type="checkbox"/>	OTHER <input type="checkbox"/>	REMARKS
	706077 - 9/193	MB30 - 0,1,2	6/22/11	1340													
	91193 - 9/196	MB31 - 0,1,2		1350													
	94196 - 9/199	MB32 - 0,1,2		1400													
	97199 - 10/102	MB33 - 0,1,2		1410													
	100102 - 10/105	MB34 - 0,1,2		1420													
	102105 - 10C/108	MB35 - 0,1,2		1430													
	10C/109 - 109/111	MB36 - 0,1,2		1440													
	109/111 - 112/114	MB37 - 0,1,2		1450													
	112/114 - 115/117	MB38 - 0,1,2		1500													
	115/117 - 117/119	MB39 - 0,1,2		1500													
	117/119 - 121/123	MB40 - 0,1,2		1510													

Preservatives:
 H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Bedlar G=Glass P=Plastic M=Metal

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

* TAT starts 8 a.m. following day if samples received after 3 p.m.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

P.O. #: _____ Date: 6/23/17
 Logged By: _____

Sample Condition Upon Receipt:
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. 1 OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: Gecon City: Livermore State: CA Zip Code: _____
 Attn: Lauren Vigliotti (Printed Name) (Signature) _____
 Project Name: 1-S N Sockets Project #: BY777609 Sampler: Lauren Vigliotti
 Relinquished by: (Signature and Printed Name) Lauren Vigliotti Date: 6/23/17 Time: 9:37
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments: see pg 1

Bill To: _____
 Attn: Account
 Co: _____
 Address: _____ State: _____ Zip: _____
 City: _____ State: _____ Zip: _____
 Circle of Add Analysis(es) Requested: _____

LAB USE ONLY:	Sample Description	Date	Time
100077 - 91/93	MB30 - 0112	6/23/17	1400
- 94/95	MB31 - 0112	6/23/17	1400
- 97/99	MB32 - 0112		1410
- 100/100	MB33 - 0112		1420
- 103/105	MB34 - 0112		1430
- 106/107	MB35 - 0112		1440
- 107/111	MB36 - 0112		1450
- 112/114	MB37 - 0112		1500
- 115/117	MB38 - 0112		1500
- 117/120	MB39 - 0112		1510
- 121/123	MB40 - 0112		1510

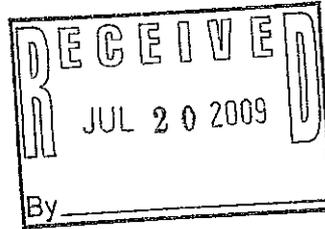
TAT: A = 5.24 hr B = Emergency C = Critical D = Urgent E = Routine
 J = Jar B = Tedlar G = Glass P = Plastic M = Metal
 V = VOA L = liter

* TAT starts 8 a.m. following day if samples received after 3 p.m.

July 16, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915



ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106077

RE: I-5 N. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 23, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie F. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: I-5 N. Stockton, E8477-06-01
Lab Order: 106077

CASE NARRATIVE

Analytical Comments for Method 7420

Dilution was necessary for sample 106077-001A, due to sample matrix.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 106199-027BMS and 106199-045BMS; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106077
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/23/2009 9:37:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106077-001A	MB1-0	15	mg/L	56561	0.50	2	6/22/2009	7/15/2009
106077-004A	MB2-0	7.1	mg/L	56561	0.25	1	6/22/2009	7/15/2009
106077-055A	MB19-0	4.0	mg/L	56561	0.25	1	6/22/2009	7/15/2009
106077-070A	MB24-0	3.6	mg/L	56561	0.25	1	6/22/2009	7/15/2009
106077-100A	MB31-0	2.2	mg/L	56561	0.25	1		

PACKAGE 2 DATA

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		





Advanced Technology Laboratories

CLIENT: Gecon Consultants, Inc.

Work Order: 106077

Project: I-5 N. Stockton, E8477-06-01

Date: 16-Jul-09

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID:	MB-56561A	Sample Type:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110827
Client ID:	PBS	Batch ID:	56561	TestNo:	WET/EPA 74 WET	SPK value	SPK Ref Val	Analysis Date:	7/15/2009	SeqNo:	1744422
Analyte		Result		PQL		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Lead		ND		0.25		0	95.4	80	120		
Sample ID:	LCS-56561	Sample Type:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110827
Client ID:	LCSS	Batch ID:	56561	TestNo:	WET/EPA 74 WET	SPK value	SPK Ref Val	Analysis Date:	7/15/2009	SeqNo:	1744423
Analyte		Result		PQL		%REC	LowLimit	HighLimit	RPD Ref Val <td>%RPD</td> <td>RPDLimit</td>	%RPD	RPDLimit
Lead		4.769		0.25		0	95.4	80	120		
Sample ID:	106074-021A-DUP	Sample Type:	DUP	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110827
Client ID:	ZZZZZZ	Batch ID:	56561	TestNo:	WET/EPA 74 WET	SPK value	SPK Ref Val	Analysis Date:	7/15/2009	SeqNo:	1744434
Analyte		Result		PQL		%REC	LowLimit	HighLimit	RPD Ref Val <td>%RPD</td> <td>RPDLimit</td>	%RPD	RPDLimit
Lead		11.358		0.50					11.44	0.757	20
Sample ID:	106074-021A-MS	Sample Type:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110827
Client ID:	ZZZZZZ	Batch ID:	56561	TestNo:	WET/EPA 74 WET	SPK value	SPK Ref Val	Analysis Date:	7/15/2009	SeqNo:	1744435
Analyte		Result		PQL		%REC	LowLimit	HighLimit	RPD Ref Val <td>%RPD</td> <td>RPDLimit</td>	%RPD	RPDLimit
Lead		15.051		1.2		72.1	80	120			S
Sample ID:	MB-56561B	Sample Type:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110827
Client ID:	PBS	Batch ID:	56561	TestNo:	WET/EPA 74 WET	SPK value	SPK Ref Val	Analysis Date:	7/15/2009	SeqNo:	1744436
Analyte		Result		PQL		%REC	LowLimit	HighLimit	RPD Ref Val <td>%RPD</td> <td>RPDLimit</td>	%RPD	RPDLimit
Lead		ND		0.25							

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- DO Surrogate Diluted Out
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106077
Project: I-5 N. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID: 106101-124A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110827
Client ID: ZZZZZZ	Batch ID: 56561	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744448
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	13.019	0.50			
Lead				12.79	1.75
					20

Sample ID: 106101-124A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110827
Client ID: ZZZZZZ	Batch ID: 56561	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744449
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	17.960	1.2	5.000	12.79	103
Lead				80	120

Sample ID: 106101-124A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110827
Client ID: ZZZZZZ	Batch ID: 56561	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744450
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	16.582	1.2	5.000	12.79	75.8
Lead				80	120
				17.96	7.98
					20
					S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- IX) Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Diane Galvan

From: Lauren Vigliotti [vigliotti@geoconinc.com]
Sent: Thursday, July 09, 2009 11:10 AM
To: Diane Galvan
Subject: I-5 North Stockton

HI Diane:
Please run the following samples for WET lead, under standard TAT. Please provide results in excel format, thanks!

WO#106074
WB20-o WB19-o WB21-o WB3-o WB11-o WB16-o WB1-o WB4-o WB7-o WB6-o

WO#106077
MB1-o MB24-o MB2-o MB34-o MB19-o

WO#106101
MB92-o MB83-o MB77-o MB78-o MB80-o MB82-o MB86-o MB79-o MB91-o MB90-o MB88-o

WO#106111
MB93-o MB100-o MB109-1 MB97-o MB105-o MB102-o MB94-o MB107-o MB114-o MB108-o MB106-o
MB103-o MB109-o MB95-o
MB98-o MB111-o MB96-o

Thanks!

Lauren Vigliotti
Senior Staff Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc

6671 Brisa Street
Livermore, CA 94550
Tel (925) 371-5900
Cell (925) 768-9874



GEOTECHNICAL ENVIRONMENTAL MATERIALS

San Diego Murrieta Burbank San Bernardino Bakersfield Sacramento Livermore Carson City Las Vegas Portland

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July 27, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106077

RE: I-5 N. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 23, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



ANALYTICAL RESULTS

**LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106077
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/23/2009 9:37:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106077-001A	MB1-0	1.5	mg/L	56747	0.25	1	6/22/2009	7/23/2009
106077-004A	MB2-0	0.90	mg/L	56747	0.25	1	6/22/2009	7/23/2009

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		



LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106077
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/23/2009 9:37:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106077-001A	MB1-0	0.56	mg/L	56809	0.25	1	6/22/2009	7/24/2009

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out





Advanced Technology Laboratories

CLIENT: Geoson Consultants, Inc.

Work Order: 106077

Project: J-5 N. Stockton, E8477-06-01

Date: 27-Jul-09

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID:	MB-56747A	SampType:	MLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111091		
Client ID:	PBS	Batch ID:	56747	TestNo:	WET DI/ EPA WET			Analysis Date:	7/23/2009	SeqNo:	1749804		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.25									
Sample ID:	LCS-56747	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111091		
Client ID:	LCSS	Batch ID:	56747	TestNo:	WET DI/ EPA WET			Analysis Date:	7/23/2009	SeqNo:	1749805		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		4.781		0.25	5.000	0	95.6	80	120				
Sample ID:	106099-016A-DUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111091		
Client ID:	ZZZZZ	Batch ID:	56747	TestNo:	WET DI/ EPA WET			Analysis Date:	7/23/2009	SeqNo:	1749815		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.466		0.25					0.5511	16.7			
Sample ID:	106099-016A-MS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111091		
Client ID:	ZZZZZ	Batch ID:	56747	TestNo:	WET DI/ EPA WET			Analysis Date:	7/23/2009	SeqNo:	1749816		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.139		0.25	5.000	0.5511	91.8	70	130				
Sample ID:	MB-56747B	SampType:	MLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111091		
Client ID:	PBS	Batch ID:	56747	TestNo:	WET DI/ EPA WET			Analysis Date:	7/23/2009	SeqNo:	1749817		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.25									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- IX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 106077
Project: 1-5 N. Stockton, E8477-06-01

TestCode: 7420_DI

Sample ID	106099-064A-DUP	SampType: DUP	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111091					
Client ID	ZZZZZZ	Batch ID: 56747	TestNo: WET DI/ EPA WET	WET	Analysis Date: 7/23/2009	SeqNo: 1749827					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	
Sample ID	106099-064A-MS	SampType: MS	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111091					
Client ID	ZZZZZZ	Batch ID: 56747	TestNo: WET DI/ EPA WET	WET	Analysis Date: 7/23/2009	SeqNo: 1749829					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.829	0.25	5.000	0	96.6	70	130				
Sample ID	106099-064A-MSD	SampType: MSD	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111091					
Client ID	ZZZZZZ	Batch ID: 56747	TestNo: WET DI/ EPA WET	WET	Analysis Date: 7/23/2009	SeqNo: 1749830					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.923	0.25	5.000	0	98.5	70	130	4.829	1.93	20	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spikes/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106077

Project: I-5 N. Stockton, E8477-06-01

TestCode: 7420_TC

Sample ID:	MB-56809A	SampType:	MBLK	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/23/2009	RunNo:	111105
Client ID:	PBS	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009	SeqNo:	1750207
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	MB-56783A TCLP	SampType:	MBLK	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/23/2009 <td>RunNo:</td> <td>111105</td>	RunNo:	111105
Client ID:	PBS	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009 <td>SeqNo:</td> <td>1750208</td>	SeqNo:	1750208
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	LCS-56809	SampType:	LCS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/23/2009 <td>RunNo:</td> <td>111105</td>	RunNo:	111105
Client ID:	LCSS	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009 <td>SeqNo:</td> <td>1750209</td>	SeqNo:	1750209
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.186	0.25	1.000	0	119	80	120				
Sample ID:	106099-028A-DUP	SampType:	DUP	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/23/2009 <td>RunNo:</td> <td>111105</td>	RunNo:	111105
Client ID:	ZZZZZZ	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009 <td>SeqNo:</td> <td>1750218</td>	SeqNo:	1750218
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.378	0.25						0.4193	10.2	20	
Sample ID:	106099-028A-MS	SampType:	MS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/23/2009 <td>RunNo:</td> <td>111105</td>	RunNo:	111105
Client ID:	ZZZZZZ	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009 <td>SeqNo:</td> <td>1750220</td>	SeqNo:	1750220
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.719	0.25	2.500	0.4193	92.0	70	130				

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- DO Surrogate Diluted Out
- I1 Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

CLIENT: Gecon Consultants, Inc.

Work Order: 106077

Project: 1-5 N. Stockton, E8477-06-01

Sample ID	MB-56809B	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105					
Client ID	PBS	Batch ID: 56809	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750221					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND		0.25								
Sample ID	MB-56783B	TCLP	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105					
Client ID	PBS	Batch ID: 56809	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750222					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND		0.25								
Sample ID	106121-052A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105					
Client ID	ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750233					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND		0.25					0	0	0	20
Sample ID	106121-052A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105					
Client ID	ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750234					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.831		2.500	0	113	70	130				
Sample ID	106121-052A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105					
Client ID	ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750235					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.946		2.500	0	118	70	130	2.831	3.99		20

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DX Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference

Diane Galvan

From: Lauren Vigliotti [vigliotti@geoconinc.com]
Sent: Monday, July 20, 2009 4:19 PM
To: Diane Galvan
Subject: I-5 North Stockton

HI Diane:
Please run the following for soluble lead under standard TAT:

WO#106074 –
WET-DI and TCLP: WB21-0 WB20-0 WB19-0

WO#106077 –
WET-DI only: MB2-0
WET-DI and TCLP: MB1-0

WO#106099 –
WET-DI only: SB4-0 SB22-0 SB20-0 SB18-2 SB17-0 SB14-0 SB13-0 SB12-0
WET-DI and TCLP: SB2-0 SB3-0 SB5-0 SB6-0 SB7-0 SB11-0 SB10-0

WO#106101 –
WET-DI only: MB79-0 MB91-0 MB90-0
WET-DI and TCLP: MB92-0 MB83-0 MB82-0 MB78-0

WO#106111 –
WET-DI only: MB107-0
WET-DI and TCLP: MB97-0 MB93-0 MB100-0

WO#106121 –
WET-DI only: SB70-0 SB60-1 SB51-0
WET-DI and TCLP: SB69-0 SB68-0 SB67-0 SB65-0 SB60-0 SB59-0 SB56-0 SB55-0 SB47-0

Thanks!

Lauren Vigliotti
Senior Staff Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc
6671 Brisa Street
Livermore, CA 94550
Tel (925) 371-5900
Cell (925) 768-9874



GEOTECHNICAL ENVIRONMENTAL MATERIALS

San Diego Murrieta Burbank San Bernardino Bakersfield Sacramento Livermore Carson City Las Vegas Portland

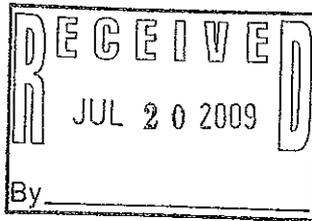
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7/20/2009

July 08, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915



ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196
Workorder No.: 106099

RE: I-5 No. Stockton, E8477-06-01

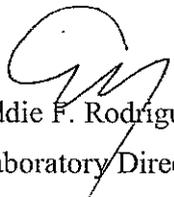
Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 24, 2009 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,


Eddie F. Rodriguez
Laboratory Director

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CLIENT: Geocon Consultants, Inc.
Project: I-5 No. Stockton, E8477-06-01
Lab Order: 106099

CASE NARRATIVE

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 106099-030ADUP, 106099-070ADUP, 106099-0810ADUP and 106099-090ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for Method 7420

Dilution was necessary for samples 106099-004A, 106099-007A, 106099-013A, 106099-016A, 106099-019A, 106099-028A, 106099-031A, 106099-034A, 106099-037A and 106099-058A, due to sample matrix.



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106099
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106099-001A	SB1-0	17	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-002A	SB1-1	11	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-003A	SB1-2	43	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-004A	SB2-0	140	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-005A	SB2-1	ND	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-006A	SB2-2	ND	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-007A	SB3-0	170	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-008A	SB3-1	24	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-009A	SB3-2	ND	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-010A	SB4-0	90	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-011A	SB4-1	5.1	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-012A	SB4-2	ND	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-013A	SB5-0	140	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-014A	SB5-1	25	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-015A	SB5-2	9.3	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-016A	SB6-0	140	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-017A	SB6-1	23	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-018A	SB6-2	ND	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106099
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106099-019A	SB7-0	150	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-020A	SB7-1	5.4	mg/Kg	56193	5.0	1	6/23/2009	6/29/2009
106099-021A	SB7-2	ND	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-022A	SB8-0	31	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-023A	SB8-1	15	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-024A	SB8-2	ND	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-025A	SB9-0	18	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-026A	SB9-1	9.2	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-027A	SB9-2	ND	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-028A	SB10-0	110	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-029A	SB10-1	16	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-030A	SB10-2	5.4	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-031A	SB11-0	150	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-032A	SB11-1	10	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-033A	SB11-2	ND	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-034A	SB12-0	99	ug/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-035A	SB12-1	5.9	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-036A	SB12-2	ND	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106099
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106099-037A	SB13-0	60	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-038A	SB13-1	ND	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-039A	SB13-2	ND	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-040A	SB14-0	63	mg/Kg	56194	5.0	1	6/23/2009	6/29/2009
106099-041A	SB14-1	ND	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-042A	SB14-2	ND	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-043A	SB15-0	ND	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-044A	SB15-1	ND	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-045A	SB15-2	6.7	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-046A	SB16-0	51	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-047A	SB16-1	ND	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-048A	SB16-2	ND	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-049A	SB17-0	97	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-050A	SB17-1	ND	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-051A	SB17-2	ND	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-052A	SB18-0	10	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-053A	SB18-1	7.4	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-054A	SB18-2	69	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106099
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106099-055A	SB19-0	47	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-056A	SB19-1	5.3	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-057A	SB19-2	ND	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-058A	SB20-0	84	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-059A	SB20-1	ND	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-060A	SB20-2	ND	mg/Kg	56195	5.0	1	6/23/2009	6/29/2009
106099-061A	SB21-0	24	mg/Kg	56196	5.0	1	6/23/2009	6/29/2009
106099-062A	SB21-1	ND	mg/Kg	56196	5.0	1	6/23/2009	6/29/2009
106099-063A	SB21-2	ND	mg/Kg	56196	5.0	1	6/23/2009	6/29/2009
106099-064A	SB22-0	77	mg/Kg	56196	5.0	1	6/23/2009	6/29/2009
106099-065A	SB22-1	14	mg/Kg	56196	5.0	1	6/23/2009	6/29/2009
106099-066A	SB22-2	ND	mg/Kg	56196	5.0	1	6/23/2009	6/29/2009
106099-067A	SB23-0	97	mg/Kg	56196	5.0	1	6/23/2009	6/29/2009
106099-068A	SB23-1	15	mg/Kg	56196	5.0	1	6/23/2009	6/29/2009
106099-069A	SB23-2	15	mg/Kg	56196	5.0	1	6/23/2009	6/29/2009
106099-070A	SB24-0	42	mg/Kg	56196	5.0	1	6/23/2009	6/29/2009
106099-071A	SB24-1						6/23/2009	6/29/2009
106099-072A	SB24-2	ND	mg/Kg	56196	5.0	1	6/23/2009	6/29/2009

PACKAGE 2 DATA

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Consultants, Inc. ID: 106099
 Project: I-5 No. Stockton, E8477-06-01 Received: 6/23/2009 9:35:00 AM
 Project No: Matrix: Soil
 Analyte: Lead Analyst: SRB

Laboratory ID	Client Sample ID	Results	Units	DL	DF	Date Collected	Ref
106099-073A	SB25-0	35	mg	5.0		6/23/2009	
106099-074A	SB25-1	6.7	mg	5.0	1	6/23/2009	
106099-075A	SB25-2	ND	mg	5.0	1	6/23/2009	J9
106099-076A	SB26-0		mg	5.0	1	6/23/2009	J9/2009
106099-077A	SB26-1		mg	5.0	1	6/23/2009	6/29/2009
106099-078A	SB26-2		mg/Kg	5.0		6/23/2009	6/29/2009
106099-079A	SB26-3		mg/Kg	5.0		6/23/2009	6/29/2009
106099-080A	SB26-4	9.4	mg/Kg	5.0		6/23/2009	6/29/2009
106099-081A	SB26-5	ND	mg/Kg	5.0		6/23/2009	6/29/2009
106099-082A	SB26-6	32	mg/Kg	5.0		6/23/2009	6/29/2009
106099-083A	SB26-7	7.0	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-084A	SB28-2	6.9	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-085A	SB29-0	5.0	mg/l	5.0	1	6/23/2009	6/29/2009
106099-086A	SB29-1	5.0	mg/l	5.0	1	6/23/2009	6/29/2009
106099-087A	SB29-2	ND	mg/l	5.0	1	6/23/2009	6/29/2009
106099-088A	SB30-0		mg	5.0	1	6/23/2009	6/29/2009
106099-089A	SB30-1		mg	5.0	1	6/23/2009	6/29/2009
106099-090A	SB30-2		mg/Kg	5.0	1	6/23/2009	6/29/2009

PACKAGE 2 DATA

Qualifiers: B Analyte detected Blank E Value above quantitation range
 II Holding times exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT: Geocon Consultants, Inc. Order: 106099
 Project: I-5 No. Stockton, E8477-06-01 Date Received: 6/24/2009 9:35:00 AM
 Project No: Matrix: Soil
 Analyte: Lead Analyst: SRB

Laboratory ID	Client Sample ID	Results	Unit	PQL	DF	Date Collected	Date Analyzed
106099-091A	SB31-0	21	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-092A	SB31-1	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-093A	SB31-2	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-094A	SB32-0	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-095A	SB32-1	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-096A	SP	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-097A	SP	39	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-098A	SP	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-099A	SP	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-100A	SP	6.5	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-101A	SB34-1	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-102A	SB34-2	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-103A	SB35-0	25	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-104A	SB35-1	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-105A	SB35-2	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-106A	SB36-0	5.5	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-107A	SB36-1	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009
106099-108A	SB36-2	ND	mg/Kg	5.0	1	6/23/2009	6/29/2009

Qualifiers: B Analyte detected in the associated sample
 H Holding times for preparation
 S Spike/Surrogate outside of the associated sample
 DO Surrogate Diluted Out
 F Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Consultants, Inc.
Project: I-5 No. Stockton, E8477-06-01
Project No:
Analyte: Lead

Lab Order: 106099
Date Received: 6/24/2009 9:35:00 AM
Matrix: Soil
Analyst: SRB

Laboratory ID	Client Sample ID	Resr	Batch	PQL	DF	Date Collected	Date Analyze
106099-109A	SB37-0		56198	5.0	1	6/23/2009	6/23/2009
106099-110A	SB37-1	µg/Kg	56198	5.0	1	6/23/2009	
106099-111A	SB37-2	mg/Kg	56198	5.0	1	6/23/2009	

PACKAGE 2 DATA

PACKAGE 2 DATA

Qualifiers: B A Method Blank E Value above quantitation range
 H Hold. Duration or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Su. Limit of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Du. Unit



LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106099
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106099-004A	SB2-0	12	mg/L	56325	0.50	2	6/23/2009	7/6/2009
106099-007A	SB3-0	18	mg/L	56325	1.0	4	6/23/2009	7/6/2009
106099-010A	SB4-0	7.1	mg/L	56325	0.25	1	6/23/2009	7/6/2009
106099-013A	SB5-0	15	mg/L	56325	0.50	2	6/23/2009	7/6/2009
106099-016A	SB6-0	16	mg/L	56325	0.50	2	6/23/2009	7/6/2009
106099-019A	SB7-0	15	mg/L	56325	0.50	2	6/23/2009	7/6/2009
106099-028A	SB10-0	13	mg/L	56325	0.50	2	6/23/2009	7/6/2009
106099-031A	SB11-0	12	mg/L	56325	0.50	2	6/23/2009	7/6/2009
106099-034A	SB12-0	10	mg/L	56325	0.50	2	6/23/2009	7/6/2009
106099-037A	SB13-0	7.1	mg/L	56325	0.50	2	6/23/2009	7/6/2009
106099-040A	SB14-0	5.1	mg/L	56325	0.25	1	6/23/2009	7/6/2009
106099-046A	SB16-0	2.7	mg/L	56325	0.25	1	6/23/2009	7/6/2009
106099-049A	SB17-0	8.8	mg/L	56325	0.25	1	6/23/2009	7/6/2009
106099-054A	SB18-2	6.9	mg/L	56325	0.25	1	6/23/2009	7/6/2009
106099-058A	SB20-0	11	mg/L	56325	0.50	2	6/23/2009	7/6/2009
106099-064A	SB22-0	5.4	mg/L	56325	0.25	1	6/23/2009	7/6/2009
106099-067A	SB23-0	4.3	mg/L	56325	0.25	1	6/23/2009	7/6/2009
106099-085A	SB29-0	1.9	mg/L	56326	0.25	1	6/23/2009	7/6/2009

PACKAGE 2 DATA

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**pH
EPA 9045C**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106099
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	pH	Analyst:	DDL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106099-001A	SB1-0	6.8	pH Units	R110328	0.10	1	6/23/2009	6/29/2009
106099-010A	SB4-0	6.6	pH Units	R110296	0.10	1	6/23/2009	6/26/2009
106099-020A	SB7-1	7.5	pH Units	R110296	0.10	1	6/23/2009	6/26/2009
106099-030A	SB10-2	7.4	pH Units	R110296	0.10	1	6/23/2009	6/26/2009
106099-040A	SB14-0	7.3	pH Units	R110296	0.10	1	6/23/2009	6/26/2009
106099-050A	SB17-1	7.9	pH Units	R110296	0.10	1	6/23/2009	6/26/2009
106099-060A	SB20-2	7.3	pH Units	R110296	0.10	1	6/23/2009	6/26/2009
106099-070A	SB24-0	8.0	pH Units	R110296	0.10	1	6/23/2009	6/26/2009
106099-080A	SB27-1		ts	R110296	0.10	1		6/26/2009
106099-090A		5.1	pH Units	R110296	0.10	1		6/26/2009
106099-100A	SB34-0	8.2	pH Un	R110296	0.10	1	6/23/2009	6/26/2009
106099-110A	SB37-1	7.8	pH Units	R110296	0.10	1	6/23/2009	6/26/2009

PACKAGE 2 DATA

PACKAGE 2 DATA

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		





Advanced Technology Laboratories

CLIENT: Geecon Consultants, Inc.

Work Order: 106099

Project: I-5 No. Stockton, E8477-06-01

Date: 08-Jul-09

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID:	MB-56193A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110305
Client ID:	PBS	Batch ID:	56193	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1733614
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.154	5.0									
Sample ID:	LCS-56193	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110305</td>	RunNo:	110305
Client ID:	LCSS	Batch ID:	56193	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009 <td>SeqNo:</td> <td>1733615</td>	SeqNo:	1733615
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	275.037	5.0	250.0	0.1541	110	80	120				
Sample ID:	106099-010A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110305</td>	RunNo:	110305
Client ID:	SB4-0	Batch ID:	56193	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009 <td>SeqNo:</td> <td>1733626</td>	SeqNo:	1733626
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	82.084	5.0						90.03	9.24	20	
Sample ID:	106099-010A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110305</td>	RunNo:	110305
Client ID:	SB4-0	Batch ID:	56193	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009 <td>SeqNo:</td> <td>1733627</td>	SeqNo:	1733627
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	281.890	5.0	250.0	90.03	76.7	33	120				
Sample ID:	MB-56193B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110305</td>	RunNo:	110305
Client ID:	PBS	Batch ID:	56193	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009 <td>SeqNo:</td> <td>1733628</td>	SeqNo:	1733628
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 106099
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106099-020A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110305						
Client ID: SB7-1	Batch ID: 56193	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1733639						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.301	5.0						5.404	15.3		20

Sample ID: 106099-020A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110305						
Client ID: SB7-1	Batch ID: 56193	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1733640						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	188.401	5.0	250.0	5.404	73.2	33	120				

Sample ID: 106099-020A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110305						
Client ID: SB7-1	Batch ID: 56193	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1733641						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	185.604	5.0	250.0	5.404	72.1	33	120	188.4	1.50		20

Qualifiers:

B Analyte detected in the associated Method Blank
 NID Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 JI Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106099
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID:	MB-56194A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110321
Client ID:	PBS	Batch ID:	56194	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734065
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									
Sample ID:	LCS-56194	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110321</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110321</td>	RunNo:	110321
Client ID:	LCSS	Batch ID:	56194	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/29/2009 <td>SeqNo:</td> <td>1734066</td> </td>	Analysis Date:	6/29/2009 <td>SeqNo:</td> <td>1734066</td>	SeqNo:	1734066
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	266.415	5.0	250.0	0	107	80	120				
Sample ID:	106099-030A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110321</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110321</td>	RunNo:	110321
Client ID:	SB10-2	Batch ID:	56194	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/29/2009 <td>SeqNo:</td> <td>1734077</td> </td>	Analysis Date:	6/29/2009 <td>SeqNo:</td> <td>1734077</td>	SeqNo:	1734077
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.596	5.0						5.394	33.9	20	R
Sample ID:	106099-030A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110321</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110321</td>	RunNo:	110321
Client ID:	SB10-2	Batch ID:	56194	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/29/2009 <td>SeqNo:</td> <td>1734078</td> </td>	Analysis Date:	6/29/2009 <td>SeqNo:</td> <td>1734078</td>	SeqNo:	1734078
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	187.603	5.0	250.0	5.394	72.9	33	120				
Sample ID:	MB-56194B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110321</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110321</td>	RunNo:	110321
Client ID:	PBS	Batch ID:	56194	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/29/2009 <td>SeqNo:</td> <td>1734079</td> </td>	Analysis Date:	6/29/2009 <td>SeqNo:</td> <td>1734079</td>	SeqNo:	1734079
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gexcon Consultants, Inc.
Work Order: 106099
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106099-040A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110321						
Client ID: SB14-0	Batch ID: 56194	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734090						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	63.686	5.0						62.66	1.62		20

Sample ID: 106099-040A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110321						
Client ID: SB14-0	Batch ID: 56194	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	235.206	5.0	250.0	62.66	69.0	33	120				

Sample ID: 106099-040A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110321						
Client ID: SB14-0	Batch ID: 56194	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734092						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	236.870	5.0	250.0	62.66	69.7	33	120	235.2	0.705		20

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DX Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 H Holding times for preparation or analysis exceeded
 S Spikes/Surrogate outside of limits due to matrix interference
 Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocom Consultants, Inc.
Work Order: 106099
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID:	MB-56195A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110322		
Client ID:	PBS	Batch ID:	56195	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734093		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0									
Sample ID:	LCS-56195	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110322		
Client ID:	LCSS	Batch ID:	56195	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734094		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		269.880		5.0	250.0	0	108	80	120				
Sample ID:	106099-050A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110322		
Client ID:	SB17-1	Batch ID:	56195	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734105		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		3.485		5.0					2.868	0	20		
Sample ID:	106099-050A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110322		
Client ID:	SB17-1	Batch ID:	56195	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734106		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		203.923		5.0	250.0	2.868	80.4	33	120				
Sample ID:	MB-56195B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110322		
Client ID:	PBS	Batch ID:	56195	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734107		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0									

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
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 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 IJ Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocon Consultants, Inc.

Work Order: 106099

Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106099-060A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110322						
Client ID: SB20-2	Batch ID: 56195	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734118						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.423	5.0						2.950	0		20

Sample ID: 106099-060A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110322						
Client ID: SB20-2	Batch ID: 56195	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734119						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	157.095	5.0	250.0	2.950	61.7	33	120				

Sample ID: 106099-060A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110322						
Client ID: SB20-2	Batch ID: 56195	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734120						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	183.083	5.0	250.0	2.950	72.1	33	120	157.1	15.3		20

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.

Work Order: 106099

Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID:	MB-56196A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110323
Client ID:	PBS	Batch ID:	56196	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734121
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									
Sample ID:	LCS-56196	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110323</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110323</td>	RunNo:	110323
Client ID:	LCSS	Batch ID:	56196	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/29/2009 <td>SeqNo:</td> <td>1734122</td> </td>	Analysis Date:	6/29/2009 <td>SeqNo:</td> <td>1734122</td>	SeqNo:	1734122
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit</td> <td>Qual</td> </td>	LowLimit	HighLimit	RPD Ref Val	%RPD <td>RPDLimit</td> <td>Qual</td>	RPDLimit	Qual
Lead	263.814	5.0	250.0	0	106	80	120				
Sample ID:	106099-070A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110323</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110323</td>	RunNo:	110323
Client ID:	SB24-0	Batch ID:	56196	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/29/2009 <td>SeqNo:</td> <td>1734133</td> </td>	Analysis Date:	6/29/2009 <td>SeqNo:</td> <td>1734133</td>	SeqNo:	1734133
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit</td> <td>Qual</td> </td>	LowLimit	HighLimit	RPD Ref Val	%RPD <td>RPDLimit</td> <td>Qual</td>	RPDLimit	Qual
Lead	51.855	5.0						41.73	21.6	20	R
Sample ID:	106099-070A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110323</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110323</td>	RunNo:	110323
Client ID:	SB24-0	Batch ID:	56196	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/29/2009 <td>SeqNo:</td> <td>1734134</td> </td>	Analysis Date:	6/29/2009 <td>SeqNo:</td> <td>1734134</td>	SeqNo:	1734134
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit</td> <td>Qual</td> </td>	LowLimit	HighLimit	RPD Ref Val	%RPD <td>RPDLimit</td> <td>Qual</td>	RPDLimit	Qual
Lead	250.246	5.0	250.0	41.73	83.4	33	120				
Sample ID:	MB-56196B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110323</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110323</td>	RunNo:	110323
Client ID:	PBS	Batch ID:	56196	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/29/2009 <td>SeqNo:</td> <td>1734135</td> </td>	Analysis Date:	6/29/2009 <td>SeqNo:</td> <td>1734135</td>	SeqNo:	1734135
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD <td>RPDLimit</td> <td>Qual</td> </td>	LowLimit	HighLimit	RPD Ref Val	%RPD <td>RPDLimit</td> <td>Qual</td>	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DD Surrogate Diluted Out
- E Value above quantitation range
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- Calculations are based on raw values
- H Folding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.

Work Order: 106099

Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106099-080A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110323						
Client ID: SB27-1	Batch ID: 56196	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734146						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	5.612	5.0		9.371				9.371	50.2	20	R

Sample ID: 106099-080A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110323						
Client ID: SB27-1	Batch ID: 56196	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734147						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	158.279	5.0	250.0	9.371	59.6	33	120				

Sample ID: 106099-080A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110323						
Client ID: SB27-1	Batch ID: 56196	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734148						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	179.199	5.0	250.0	9.371	67.9	33	120	158.3	12.4	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
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- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spikes/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoscon Consultants, Inc.

Work Order: 106099

Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID	MB-56197A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110324					
Client ID	PBS	Batch ID: 56197	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734149					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.116	5.0									
Sample ID	LCS-56197	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110324					
Client ID	LCSS	Batch ID: 56197	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734150					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	278.290	5.0	250.0	0.1156	111	80	120				
Sample ID	106099-090A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110324					
Client ID	SB30-2	Batch ID: 56197	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734161					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.179	5.0				3.601	87.3	20	R		
Sample ID	106099-090A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110324					
Client ID	SB30-2	Batch ID: 56197	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734162					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	189.890	5.0	250.0	3.601	74.5	33	120				
Sample ID	MB-56197B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110324					
Client ID	PBS	Batch ID: 56197	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734163					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DC Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Flooding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gencon Consultants, Inc.
Work Order: 106099
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106099-100A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110324						
Client ID: SB34-0	Batch ID: 56197	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734174						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.518	5.0						6.515	16.6		20

Sample ID: 106099-100A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110324						
Client ID: SB34-0	Batch ID: 56197	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734175						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	189.528	5.0	250.0	6.515	73.2	33	120				

Sample ID: 106099-100A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110324						
Client ID: SB34-0	Batch ID: 56197	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734176						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	176.201	5.0	250.0	6.515	67.9	33	120	189.5	7.29		20

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogates outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106099

Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID:	MB-56198A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110325		
Client ID:	PBS	Batch ID:	56198	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734177		
Analyte	Lead	Result	ND	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
					5.0	250.0	0	111	80	120			
Sample ID:	LCS-56198	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009</td> <td>RunNo:</td> <td>110325</td>	Prep Date:	6/29/2009	RunNo:	110325		
Client ID:	LCSS	Batch ID:	56198	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/29/2009</td> <td>SeqNo:</td> <td>1734178</td>	Analysis Date:	6/29/2009	SeqNo:	1734178		
Analyte	Lead	Result	277.873	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
					5.0	250.0	0	111	80	120			
Sample ID:	106099-110A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009</td> <td>RunNo:</td> <td>110325</td>	Prep Date:	6/29/2009	RunNo:	110325		
Client ID:	SB37-1	Batch ID:	56198	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/29/2009</td> <td>SeqNo:</td> <td>1734189</td>	Analysis Date:	6/29/2009	SeqNo:	1734189		
Analyte	Lead	Result	4.872	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
					5.0	250.0	3.659			0		20	
Sample ID:	106099-110A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009</td> <td>RunNo:</td> <td>110325</td>	Prep Date:	6/29/2009	RunNo:	110325		
Client ID:	SB37-1	Batch ID:	56198	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/29/2009</td> <td>SeqNo:</td> <td>1734190</td>	Analysis Date:	6/29/2009	SeqNo:	1734190		
Analyte	Lead	Result	180.271	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
					5.0	250.0	3.659	70.6	33	120			
Sample ID:	MB-56198B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009</td> <td>RunNo:</td> <td>110325</td>	Prep Date:	6/29/2009	RunNo:	110325		
Client ID:	PBS	Batch ID:	56198	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/29/2009</td> <td>SeqNo:</td> <td>1734191</td>	Analysis Date:	6/29/2009	SeqNo:	1734191		
Analyte	Lead	Result	ND	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
					5.0	250.0							

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106099
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106101-009A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110325						
Client ID: ZZZZZZ	Batch ID: 56198	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734202						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.940	5.0						2.379	0		20

Sample ID: 106101-009A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110325						
Client ID: ZZZZZZ	Batch ID: 56198	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734203						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	184.509	5.0	250.0	2.379	72.9	33	120				

Sample ID: 106101-009A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110325						
Client ID: ZZZZZZ	Batch ID: 56198	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734204						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	195.935	5.0	250.0	2.379	77.4	33	120	184.5	6.01		20

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 D0 Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 U Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106099
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID:	MB-56325A	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/1/2009	RunNo:	110520
Client ID:	PBS	Batch ID:	56325	TestNo:	WET/EPA 74 WET	SPK value	SPK Ref Val	Analysis Date:	7/6/2009	SeqNo:	1739017
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	LCS-56325	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/1/2009	RunNo:	110520
Client ID:	LCSS	Batch ID:	56325	TestNo:	WET/EPA 74 WET	SPK value	SPK Ref Val	Analysis Date:	7/6/2009	SeqNo:	1739018
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.313	0.25	5.000	0	106	80	120				
Sample ID:	106099-028A-DUP	SampType:	DUP	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/1/2009	RunNo:	110520
Client ID:	SB10-0	Batch ID:	56325	TestNo:	WET/EPA 74 WET	SPK value	SPK Ref Val	Analysis Date:	7/6/2009	SeqNo:	1739029
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.106	0.50						13.15	0.311	20	
Sample ID:	106099-028A-MS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/1/2009	RunNo:	110520
Client ID:	SB10-0	Batch ID:	56325	TestNo:	WET/EPA 74 WET	SPK value	SPK Ref Val	Analysis Date:	7/6/2009	SeqNo:	1739030
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	18.895	0.86	5.000	13.15	115	80	120				
Sample ID:	MB-56325B	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/1/2009	RunNo:	110520
Client ID:	PBS	Batch ID:	56325	TestNo:	WET/EPA 74 WET	SPK value	SPK Ref Val	Analysis Date:	7/6/2009	SeqNo:	1739031
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 T1 Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocom Consultants, Inc.

Work Order: 106099

Project: I-5 No. Stockton. E8477-06-01

TestCode: 7420_ST

Sample ID: 106099-067A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/1/2009	RunNo: 110520						
Client ID: SB23-0	Batch ID: 56325	TestNo: WET/EPA 74 WET		Analysis Date: 7/16/2009	SeqNo: 1739042						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	4.069	0.25				4.300			5.52	20	

Sample ID: 106099-067A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/1/2009	RunNo: 110520						
Client ID: SB23-0	Batch ID: 56325	TestNo: WET/EPA 74 WET		Analysis Date: 7/16/2009	SeqNo: 1739043						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	10.189	0.50	5.000	4.300	118	80	120				

Sample ID: 106099-067A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/1/2009	RunNo: 110520						
Client ID: SB23-0	Batch ID: 56325	TestNo: WET/EPA 74 WET		Analysis Date: 7/16/2009	SeqNo: 1739044						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	10.164	0.50	5.000	4.300	117	80	120	10.19	0.240	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spikes/Surrogates outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106099
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID:	MB-56326A	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/1/2009	RunNo:	110521
Client ID:	PBS	Batch ID:	56326	TestNo:	WET/EPA 74 WET			Analysis Date:	7/6/2009	SeqNo:	1739058
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	LCS-56326	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/1/2009	RunNo:	110521
Client ID:	LCSS	Batch ID:	56326	TestNo:	WET/EPA 74 WET			Analysis Date:	7/6/2009	SeqNo:	1739059
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.195	0.25	5.000	0	104	80	120				
Sample ID:	106099-085A-DUP	SampType:	DUP	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/1/2009	RunNo:	110521
Client ID:	SB29-0	Batch ID:	56326	TestNo:	WET/EPA 74 WET			Analysis Date:	7/6/2009	SeqNo:	1739062
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.813	0.25						1.896	4.48	20	
Sample ID:	106099-085A-MS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/1/2009	RunNo:	110521
Client ID:	SB29-0	Batch ID:	56326	TestNo:	WET/EPA 74 WET			Analysis Date:	7/6/2009	SeqNo:	1739063
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.871	0.25	5.000	1.896	99.5	80	120				
Sample ID:	106099-085A-MSD	SampType:	MSD	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/1/2009	RunNo:	110521
Client ID:	SB29-0	Batch ID:	56326	TestNo:	WET/EPA 74 WET			Analysis Date:	7/6/2009	SeqNo:	1739064
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.741	0.25	5.000	1.896	96.9	80	120	6.871	1.92	20	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 I Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.

Work Order: 106099

Project: I-5 No. Stockton, E8477-06-01

TestCode: 9045_S

Sample ID: 106099-030ADUP	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 110296						
Client ID: SB10-2	Batch ID: R110296	TestNo: EPA 9045C		Analysis Date: 6/26/2009	SeqNo: 1733509						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.420	0.10						7.390	0.405		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- NID Not Detected at the Reporting Limit
- DD Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- JH Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106099

Project: I-5 No. Stockton, E8477-06-01

TestCode: 9045_S

Sample ID: 106099-110ADUP	Batch ID: R110297	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 110297					
Client ID: SB37-1			TestNo: EPA 9045C		Analysis Date: 6/26/2009	SeqNo: 1733523					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.800	0.10						7.780	0.257		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.

Work Order: 106099

Project: I-5 No. Stockton, E8477-06-01

TestCode: 9045_S

Sample ID: 106111-002ADUP	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 110328						
Client ID: ZZZZZZ	Batch ID: R110328	TestNo: EPA 9045C		Analysis Date: 6/29/2009	SeqNo: 1734242						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.270	0.10						7.220	0.690		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- NID Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

P.O.#: _____
 Logged By: [Signature] Date: 6/24/09

Method of Transport: Client ATL CA OverN FEDEX Other: UPS

Sample Condition Upon Receipt: 1. CHILLED 2.0 Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: GEORGE Address: 6671 BRUSA ST State: CA Zip Code: 94550 TEL: (925) 371-5900 FAX: () " 5915
 Attn: L. VISLITTI City: LIVERMORE State: CA Zip Code: 94550

Project Name: I-5 No. Stockton Project #: ES477-06-01 Sampler: D. WATTS (Printed Name)
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/23/09 Time: 6:00 Received by: (Signature and Printed Name) [Signature] Date: 6/23/09 Time: 1:00
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/23/09 Time: 6:00 Received by: (Signature and Printed Name) [Signature] Date: 6/24/09 Time: 9:35
 Relinquished by: (Signature and Printed Name) [Signature] Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Bill To: _____ Attn: _____
 Co: SEE "CLIENT"
 Address: _____ City: _____ State: _____ Zip: _____
 Special Instructions/Comments: DO NOT COMPOSITE SAMPLE SETS
PLEASE RETURN ALL BEHIND LOCKERS
RUN WETS ON SAMPLES 3-50 PPM + 1000 PPM
RUN PH ON 10% (LAB - RANDOM)

LAB USE ONLY: Batch #	Sample Description	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX		CONTAINERIZATION	Q A / Q C
					WATER	SOIL		
106099-00, 2, 2	3B1-012	6/23/09 VAR						
456	2-							
7, 8, 9	3-							
10, 11, 12	4-							
13, 14, 15	5-							
16, 17, 18	6-							
19, 20, 21	7-							
22, 23, 24	8-							
25, 26, 27	9-							
28, 29, 30	10-							

Circle or Add Analysis(es) Requested: 801A (Pesticides), 802 (PCB), 8270C (Nitrates), 8010B (Total Metals), 8015B (GRO / 8020 (GTEX)), 8015B (DRO), 8021 (GTEX), TITLE 22 / CAM 17 (6010 / 7000)

TAT: A= Overnight ≤ 24 hr, B= Emergency Next workday, C= Critical 2 Workdays, D= Urgent 3 Workdays, E= Routine 7 Workdays
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Bedlar G=Glass P=Plastic M=Metal
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Sample Condition Upon Receipt
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Method of Transport
 Client
 ATL
 CA OverN
 FEDEX
 Other: _____

P.O.#: _____
 Logged By: _____ Date: _____

TEL: () _____ FAX: () _____
 City _____ State _____ Zip Code _____

Project Name: SEE PG 1 Project # _____ Sampler: _____
 Relinquished by: (Signature and Printed Name) NHT Date: 6/23/07 Time: 1:00 Received by: (Signature and Printed Name) UPS Date: 6/23/07 Time: 6:00
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: 6/24/07 Time: 9:35
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr/Submitter: SEE PG 1
 Signature _____ Date _____
 Print Name _____ Address _____ City _____ State _____ Zip _____

Send Report To:
 Attn: _____
 Co: _____
 Address _____ City _____ State _____ Zip _____

Special Instructions/Comments: _____

LAB USE ONLY:	Sample Description	Sample I.D. / Location	Date	Time
Batch #:				
Lab No.				
		2011-012	6/23/07	VAR
		12-		
		13-		
		14-		
		15-		
		16-		
		17-		
		18-		
		19-		
		20-		

LAB USE ONLY:		Sample Description	Sample I.D. / Location	Date	Time
Batch #:					
Lab No.					
			2011-012	6/23/07	VAR
			12-		
			13-		
			14-		
			15-		
			16-		
			17-		
			18-		
			19-		
			20-		

Circle or Add Analysis(es) Requested
 801A (Pesticides) _____
 802 (PCB) _____
 820B (Volatiles) _____
 8270C (BNA) _____
 8010B (Total Metals) _____
 8015B (GRO / 8020 (RETX)) _____
 8015B (DFIO) _____
 8021 (RETX) _____
 TITLE 22 / CAM 17 (6010 / 7000) _____

Specify Appropriate Matrix
 SOIL _____
 WATER _____
 GROUND WATER _____
 WASTEWATER _____

Containers # Type
 3 Poly _____

QA/QC
 RTME CT
 SWRCB Logcode _____
 OTHER _____
 REMARKS _____

Preservatives:
 H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Bedlar G=Glass P=Plastic M=Metal

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Method of Transport: Client ATL CA OverN FEDEX Other: _____

Sample Condition Upon Receipt: 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

P.O.#: _____ Date: _____
 Logged By: _____

Client: _____ Address: _____ City: _____ State: _____ Zip Code: _____
 Attn: SEE PAGE 1 Project #: _____ Sampler: _____ (Printed Name) _____ (Signature) _____

Relinquished by: (Signature and Printed Name) _____ Date: 6/23/09 Time: 1600
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Received by: (Signature and Printed Name) URS Date: 6/23/09 Time: 1600
 Received by: (Signature and Printed Name) Maria SM Date: 6/23/09 Time: 935
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments: _____

Bill To: _____ Attn: _____
 Co: _____ Address: _____ City: _____ State: _____ Zip: _____

Send Report To: _____ Attn: _____
 Co: _____ Address: _____ City: _____ State: _____ Zip: _____

Project Mgr / Submitter: SEE PAGE 1 Date: _____
 Print Name: _____ Signature: _____

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch # / Lab No.	Sample Description	Date Time		SPECIFY APPROPRIATE MATRIX	CONTAINER(S)	TAT #	Type	QA/QC
		Sample I.D. / Location	Date					
60639A - 64,62,63	20 21 - 0, 1, 2	6/23/09	1600	SOIL	3	3	g/l	RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____
64,65,66	22 -							
67,68,69	23 -							
70,71,72	24 -							
73,74,75	25 -							
76,77,78	26 -							
79,80,81	27 -							
82,83,84	28 -							
85,86,87	29 -							
88,89,90	30 -							

TAT: A = Overnight ≤ 24 hr B = Emergency Next workday C = Critical 2 Workdays D = Urgent 3 Workdays E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Method of Transport
 Client ATL CA OverN FEDEX Other: _____
 Sample Condition Upon Receipt
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Logged By: _____ Date: _____
 P.O.#: _____
 TEL: () _____ FAX: () _____

Client: _____ Attn: SEE pg 1
 Project Name: SEE pg 1 Project #: _____
 Relinquished by: (Signature and Printed Name) _____ Date: 6/23/09 Time: 1:00
 Relinquished by: (Signature and Printed Name) _____ Date: 6/24/09 Time: 9:35
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments: _____
 Bill To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Circle or Add Analysis(es) Requested: _____
 809A (Lead/Pb) _____
 802 (Pb) _____
 820B (Volatiles) _____
 827C (BNA) _____
 801B (Total Metal) _____
 801S (GRO / 8020 (BTEX) _____
 801S (OH) _____
 8021 (BTEX) _____
 TITLE 22 / CAM 17 (6010 / 7000) _____

LAB USE ONLY:
 Batch #: _____
 Lab No. _____
 Sample Description _____
 Sample I.D. / Location _____
 Date _____ Time _____

LAB USE ONLY:	Batch #:	Lab No.:	Sample Description:	Sample I.D. / Location:	Date:	Time:
	106099-919799			31-012	6/23/09	VAR
	949899			32-		
	979899			33-		
	10010100			34-		
	10010405			35-		
	106107109			36-		
	100110111			37-		

Matrix: _____
 Containers: _____
 TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

July 27, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106099

RE: I-5 No. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 24, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

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ANALYTICAL RESULTS

**LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106099
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106099-004A	SB2-0	0.50	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-007A	SB3-0	1.2	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-010A	SB4-0	ND	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-013A	SB5-0	0.65	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-016A	SB6-0	0.55	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-019A	SB7-0	0.69	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-028A	SB10-0	0.72	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-031A	SB11-0	0.50	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-034A	SB12-0	0.51	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-037A	SB13-0	ND	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-040A	SB14-0	ND	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-049A	SB17-0	0.29	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-054A	SB18-2	0.59	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-058A	SB20-0	ND	mg/L	56747	0.25	1	6/23/2009	7/23/2009
106099-064A	SB22-0	ND	mg/L	56747	0.25	1	6/23/2009	7/23/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106099
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106099-004A	SB2-0	0.54	mg/L	56809	0.25	1	6/23/2009	7/24/2009
106099-007A	SB3-0	0.45	mg/L	56809	0.25	1	6/23/2009	7/24/2009
106099-013A	SB5-0	0.48	mg/L	56809	0.25	1	6/23/2009	7/24/2009
106099-016A	SB6-0	ND	mg/L	56809	0.25	1	6/23/2009	7/24/2009
106099-019A	SB7-0	ND	mg/L	56809	0.25	1	6/23/2009	7/24/2009
106099-028A	SB10-0	0.42	mg/L	56809	0.25	1	6/23/2009	7/24/2009
106099-031A	SB11-0	ND	mg/L	56809	0.25	1	6/23/2009	7/24/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		





Advanced Technology Laboratories
 CLIENT: Geoson Consultants, Inc.
 Work Order: 106099
 Project: I-5 No. Stockton, E8477-06-01

Date: 27-Jul-09

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID:	MB-56747A	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111091		
Client ID:	PBS	Batch ID:	56747	TestNo:	WET DI/EPA WET	Analysis Date:	7/23/2009	SeqNo:	1749804				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.25									
Sample ID:	LCS-56747	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111091		
Client ID:	LCSS	Batch ID:	56747	TestNo:	WET DI/EPA WET	Analysis Date:	7/23/2009	SeqNo:	1749805				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		4.781		0.25	5.000	0	95.6	80	120				
Sample ID:	106099-016A-DUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111091		
Client ID:	SB6-0	Batch ID:	56747	TestNo:	WET DI/EPA WET	Analysis Date:	7/23/2009	SeqNo:	1749815				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.466		0.25					0.5511		16.7		20
Sample ID:	106099-016A-MS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111091		
Client ID:	SB6-0	Batch ID:	56747	TestNo:	WET DI/EPA WET	Analysis Date:	7/23/2009	SeqNo:	1749816				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.139		0.25	5.000	0.5511	91.8	70	130				
Sample ID:	MB-56747B	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111091		
Client ID:	PBS	Batch ID:	56747	TestNo:	WET DI/EPA WET	Analysis Date:	7/23/2009	SeqNo:	1749817				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.25									

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DX Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106099
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_DI

Sample ID: 106099-064A-DUP	Sample Type: DUP	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111091						
Client ID: SB222-0	Batch ID: 56747	TestNo: WET DI/EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749827						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	0	20

Sample ID: 106099-064A-MS	Sample Type: MS	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111091						
Client ID: SB222-0	Batch ID: 56747	TestNo: WET DI/EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749829						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.829	0.25	5.000	0	96.6	70	130				

Sample ID: 106099-064A-MSD	Sample Type: MSD	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111091						
Client ID: SB222-0	Batch ID: 56747	TestNo: WET DI/EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749830						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.923	0.25	5.000	0	98.5	70	130	4.829	1.93	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106099
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_TC

Sample ID: MB-56809A	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: PBS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750207
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
				LowLimit	HighLimit
				RPD Ref Val	%RPD
					RPDLimit
					Qual

Lead ND 0.25

Sample ID: MB-56783A TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: PBS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750208
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
				LowLimit	HighLimit
				RPD Ref Val	%RPD
					RPDLimit
					Qual

Lead ND 0.25

Sample ID: LCS-56809	SampType: LCS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: LCSS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750209
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
				LowLimit	HighLimit
				RPD Ref Val	%RPD
					RPDLimit
					Qual

Lead 1.186 0.25 1,000 0 119 80 120

Sample ID: 106099-028A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: SB10-0	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750218
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
				LowLimit	HighLimit
				RPD Ref Val	%RPD
					RPDLimit
					Qual

Lead 0.378 0.25 2,500 0.4193 92.0 70 130

Sample ID: 106099-028A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: SB10-0	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750220
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
				LowLimit	HighLimit
				RPD Ref Val	%RPD
					RPDLimit
					Qual

Lead 2.719 0.25 2,500 0.4193 92.0 70 130

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- I Holding times for preparation or analysis exceeded
- S Spikes/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 106099
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_TC

Sample ID: MB-56809B	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: PBS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750221
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	0.25			

Sample ID: MB-56783B TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: PBS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750222
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	0.25			

Sample ID: 106121-052A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750233
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	0.25			

Sample ID: 106121-052A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750234
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	2.831	0.25	2.500	0	113

Sample ID: 106121-052A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750235
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	2.946	0.25	2.500	0	118

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference

Diane Galvan

From: Lauren Vigliotti [vigliotti@geoconinc.com]
Sent: Monday, July 20, 2009 4:19 PM
To: Diane Galvan
Subject: I-5 North Stockton

Hi Diane:
Please run the following for soluble lead under standard TAT:

WO#106074 –
WET-DI and TCLP: WB21-0 WB20-0 WB19-0

WO#106077 –
WET-DI only: MB2-0
WET-DI and TCLP: MB1-0

WO#106099 –
WET-DI only: SB4-0 SB22-0 SB20-0 SB18-2 SB17-0 SB14-0 SB13-0 SB12-0
WET-DI and TCLP: SB2-0 SB3-0 SB5-0 SB6-0 SB7-0 SB11-0 SB10-0

WO#106101 –
WET-DI only: MB79-0 MB91-0 MB90-0
WET-DI and TCLP: MB92-0 MB83-0 MB82-0 MB78-0

WO#106111 –
WET-DI only: MB107-0
WET-DI and TCLP: MB97-0 MB93-0 MB100-0

WO#106121 –
WET-DI only: SB70-0 SB60-1 SB51-0
WET-DI and TCLP: SB69-0 SB68-0 SB67-0 SB65-0 SB60-0 SB59-0 SB56-0 SB55-0 SB47-0

Thanks!

Lauren Vigliotti
Senior Staff Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc

6671 Brisa Street
Livermore, CA 94550
Tel (925) 371-5900
Cell (925) 768-9874

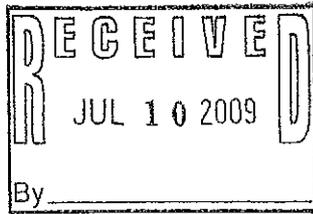


GEOTECHNICAL ENVIRONMENTAL MATERIALS

San Diego Murrieta Burbank San Bernardino Bakersfield Sacramento Livermore Carson City Las Vegas Portland

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7/20/2009



June 30, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106101

RE: I-5 N. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 24, 2009 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: I-5 N. Stockton, E8477-06-01
Lab Order: 106101

CASE NARRATIVE

Analytical Comments for Method 6010

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for sample 106101-109AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Duplicate (DUP) and/or Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for samples 106101-069AMSD, 106101-109ADUP and 106101-109AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



LEAD BY ICP
EPA 6010B

ANALYTICAL RESULTS

CLIENT: Geocon Consultants, Inc. Lab Order: 106101
 Project: I-5 N. Stockton, E8477-06-01 Date Received: 6/24/2009 9:35:00 AM
 Project No: Matrix: Soil
 Analyte: Lead Analyst: SRB

Laboratory ID	Client Sample ID	Results	Units	PQL	DF	Date Collected	Date Analyzed
106101-001A	MB41-0	ND		5.0	1	6/22/2009	6/29/2009
106101-002A	MB41-1	ND		5.0	1	6/22/2009	6/29/2009
106101-003A	MB41-2	ND		5.0	1	6/22/2009	6/29/2009
106101-004A	MB42-0	ND		5.0	1	6/22/2009	6/29/2009
106101-005A	MB42-1	ND	µg/Kg	5.0	1	6/22/2009	6/29/2009
106101-006A	MB42-2	ND	mg/Kg	5.0	1	6/22/2009	6/29/2009
106101-007A	MB43-0	ND	mg/Kg	5.0	1	6/22/2009	6/29/2009
106101-008A	MB43-1	ND	mg/Kg	5.0	1	6/22/2009	6/29/2009
106101-009A	MB43-2	ND	mg/Kg	5.0	1	6/22/2009	6/29/2009
106101-010A	MB44-0	11	mg/Kg	5.0	1	6/22/2009	6/30/2009
106101-011A	MB44-1	ND	mg/Kg	5.0	1	6/22/2009	6/30/2009
106101-012A	MB44-2	ND	mg/Kg	5.0	1	6/22/2009	6/30/2009
106101-013A	MB45-0	7.6	mg/Kg	5.0	1	6/22/2009	6/30/2009
106101-014A	MB45-1	ND	mg/Kg	5.0	1	6/22/2009	6/30/2009
106101-015A	MB45-2	ND	mg/Kg	5.0	1	6/22/2009	6/30/2009
106101-016A	MB46-0	13	mg/Kg	5.0	1	6/23/2009	6/30/2009
106101-017A	MB46-1	ND	mg/Kg	5.0	1	6/23/2009	6/30/2009
106101-018A	MB46-2	ND	mg/Kg	5.0	1	6/23/2009	6/30/2009

Qualifiers: B Analyte detected in the associated Method
 H Holding times for preparation or analysis
 S Spike/Surrogate outside of limits due to concentration
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified

ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106101
Project:	I-5 N. Stockton, E8477-06-01	Date Received:	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Unit	Lot	PQL	DF	Date Collected	Date Analyzed
106101-019A	MB47-0	6.3	mg/Kg	56199	5.0	1	6/23/2009	6/30/2009
106101-020A	MB47-1	1.0	mg/Kg	56199	5.0	1	6/23/2009	6/30/2009
106101-021A	MB47-2	1.0	mg/Kg	56199	5.0	1	6/23/2009	6/30/2009
106101-022A	MB48-0	1.0	mg/Kg	56199	5.0	1	6/23/2009	6/30/2009
106101-023A	MB48-1	1.0	mg/Kg	56199	5.0	1	6/23/2009	6/30/2009
106101-024A	MB48-2	1.0	mg/Kg	56199	5.0	1	6/23/2009	6/30/2009
106101-025A	MB48-3	7.8	mg/Kg	56199	5.0	1	6/23/2009	6/30/2009
106101-026A	MB48-4	ND	mg/Kg	56199	5.0	1	6/23/2009	6/30/2009
106101-027A	MB48-5	ND	mg/Kg	56199	5.0	1	6/23/2009	6/30/2009
106101-028A	J-0	8.9	mg/Kg	56199	5.0	1	6/23/2009	6/30/2009
106101-029A	MB50-1	ND	mg/Kg	56199	5.0	1	6/23/2009	6/30/2009
106101-030A	MB50-2	ND	mg/Kg	56200	5.0	1	6/23/2009	6/30/2009
106101-031A	MB51-0	16	mg/Kg	56200	5.0	1	6/23/2009	6/30/2009
106101-032A	MB51-1	ND	mg/Kg	56200	5.0	1	6/23/2009	6/30/2009
106101-033A	MB51-2	ND	mg/Kg	56200	5.0	1	6/23/2009	6/30/2009
106101-034A	MB52-0	12	mg/Kg	56200	5.0	1	6/23/2009	6/30/2009
106101-035A	MB52-1	ND	mg/Kg	56200	5.0	1	6/23/2009	6/30/2009
106101-036A	MB52-2	ND	mg/Kg	56200	5.0	1	6/23/2009	6/30/2009

Qualifiers: B Analyte detected in the associated Method B1
 H Holding times for preparation or analysis
 S Spike/Surrogate outside of limits due to
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified

PACKAGE 2 DATA

PACKAGE 2 DATA



LEAD BY ICP
EPA 6010B

ANALYTICAL RESULTS

CLIENT: Geocon Consultants, Inc.
Project: I-5 N. Stockton, E8477-06-01
Project No:
Analyte: Lead

Lab Order: 106101
Date Received 6/23/2009 9:35:00 AM
Matrix: Soil
Analyst: SRB

Laboratory ID	Client Sample ID	Results	Batch	PQL	DF	Date Collected	Date Analyzed
106101-037A	MB53-0	N	56200	5.0	1	6/23/2009	6/30/2009
106101-038A	MB53-1		56200	5.0	1	6/23/2009	6/30/2009
106101-039A	MB53-2	g	56200	5.0	1	6/23/2009	6/30/2009
106101-040A	MB54-0	mg/Kg	56200	5.0	1	6/23/2009	
106101-041A	MB54	mg/Kg	56200	5.0	1	6/23/2009	
106101-042A	M	mg/Kg	56200	5.0	1	6/23/2009	
106101-043A		11 mg/Kg	56200	5.0	1	6/23/2009	
106101-044A		ND mg/Kg	56200	5.0	1	6/23/2009	6/30/2009
106101-045A		ND mg/Kg	56200	5.0	1	6/23/2009	6/30/2009
106101-04		9.1 mg/Kg	56200	5.0	1	6/23/2009	6/30/2009
106101-046-1		ND mg/Kg	56200	5.0	1	6/23/2009	6/30/2009
106101-047-2	MB56-2	ND mg/Kg	56200	5.0	1	6/23/2009	6/30/2009
106101-048-0	MB57-0	ND mg/Kg	56200	5.0	1	6/23/2009	6/30/2009
106101-049-1	MB57-1	ND mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-050-2	MB57-2	ND mg/Kg	56202	5.0	1	6/23/2009	6/30/2009
106101-051A	MB58-0	15 mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-053A	MB58-1	ND mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-054A	MB58-2	ND mg/Kg	56205	5.0	1	6/23/2009	6/30/2009

Qualifiers: B Analyte detected in the associated Method B1
H Holding times for preparation or analysis
S Spike/Surrogate outside of limits due to
DO Surrogate Diluted Out

Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified

PACKAGE 2 DATA



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106101
Project:	I-5 N. Stockton, E8477-06-01	Date Received:	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Batch	PQL	DF	Date Collected	Date Analyzed
106101-055A	MB59-0	9.7	56201	5.0	1	6/23/2009	6/30/2009
106101-056A	MB59-1		56201	5.0	1	6/23/2009	6/30/2009
106101-057A	MB59-2	<g	56201	5.0	1	6/23/2009	6/30/2009
106101-058A	MB60-0	.mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-059A	MB60-1	mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-060A	MB60-2	mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-061A	MB60-3	ND mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-062A	MB60-4	ND mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-063A	MB60-5	ND mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-064A	MB60-6	ND mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-065	MB60-7	ND mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-066	MB60-8	ND mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-067	MB60-9	ND mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-068	MB60-10	ND mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-069	MB60-11	ND mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-070	MB60-12	ND mg/Kg	56201	5.0	1	6/23/2009	6/30/2009
106101-071A	MB64-1	ND mg/Kg	56202	5.0	1	6/23/2009	6/30/2009
106101-072A	MB64-2	ND mg/Kg	56202	5.0	1	6/23/2009	6/30/2009

PACKAGE 2 DATA

PACKAGE 2 DATA

Qualifiers:
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 > Above quantitation range
 ND Not detected at the Reporting Limit
 All results are wet unless otherwise specified



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Consultants, Inc. **Lab Order:** 106101
Project: I-5 N. Stockton, E8477-06-01 **Date Received:** 6/24/2009 9:35:00 AM
Project No: **Matrix:** Soil
Analyte: Lead **Analyst:** SRB

Laboratory ID	Client Sample ID	Results	Method	PQL	DF	Date Collected	Date Analyzed
106101-073A	MB65-0	13	56202	5.0	1	6/23/2009	6/30/2009
106101-074A	MB65-1		56202	5.0		6/23/2009	6/30/2009
106101-075A	MB65-2		56202	5.0	1	6/23/2009	6/30/2009
106101-076A	MB66-0	g/Kg	56202	5.0	1	6/23/2009	6/30/2009
106101-077A	MB66-	mg/Kg	56202	5.0	1	6/23/2009	6/30/2009
106101-078A	MB67	mg/Kg	56202	5.0	1	6/23/2009	6/30/2009
106101-079A	MB68-1	10 mg/Kg	56202	5.0	1	6/23/2009	6/30/2009
106101-080A	MB68-2	ND mg/Kg	56202	5.0	1	6/23/2009	6/30/2009
106101-081A	MB69-0	ND mg/Kg	56202	5.0	1	6/23/2009	6/30/2009
106101-082A	MB69-1	7.1 mg/Kg	56202	5.0	1	6/23/2009	6/30/2009
106101-083A	MB69-2	ND mg/Kg	56202	5.0	1	6/23/2009	6/30/2009
106101-084A	MB70-0	ND mg/Kg	56202	5.0	1	6/23/2009	6/30/2009
106101-085A	MB70-1	ND mg/Kg	56202	5.0	1	6/23/2009	6/30/2009
106101-086A	MB70-2	ND mg/Kg	56202	5.0	1	6/23/2009	6/30/2009

PACKAGE 2 DATA

Qualifiers: B Analyte detected in the associated Method B1
 H Holding times for preparation or analysis
 S Spike/Surrogate outside of limits due to
 DO Surrogate Diluted Out
 Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106101
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106101-091A	MB71-0	11	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-092A	MB71-1	ND	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-093A	MB71-2	ND	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-094A	MB72-0	ND	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-095A	MB72-1	ND	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-096A	MB72-2	ND	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-097A	MB73-0	7.3	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-098A	MB73-1	ND	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-099A	MB73-2	ND	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-100A	MB74-0	7.9	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-101A	MB74-1	ND	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-102A	MB74-2	ND	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-103A	MB75-0	18	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-104A	MB75-1	5.2	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-105A	MB75-2	ND	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-106A	MB76-0	21	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-107A	MB76-1	ND	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-108A	MB76-2	ND	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106101
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106101-109A	MB77-0	73	mg/Kg	56203	5.0	1	6/23/2009	6/30/2009
106101-110A	MB77-1	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-111A	MB77-2	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-112A	MB78-0	160	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-113A	MB78-1	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-114A	MB78-2	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-115A	MB79-0	88	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-116A	MB79-1	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-117A	MB79-2	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-118A	MB80-0	140	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-119A	MB80-1	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-120A	MB80-2	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-121A	MB81-0	26	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-122A	MB81-1	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-123A	MB81-2	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-124A	MB82-0	140	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-125A	MB82-1	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-126A	MB82-2	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106101
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106101-127A	MB83-0	200	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-128A	MB83-1	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-129A	MB83-2	ND	mg/Kg	56204	5.0	1	6/23/2009	6/30/2009
106101-130A	MB84-0	36	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-131A	MB84-1	ND	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-132A	MB84-2	ND	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-133A	MB85-0	32	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-134A	MB85-1	ND	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-135A	MB85-2	ND	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-136A	MB86-0	120	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-137A	MB86-1	ND	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-138A	MB86-2	ND	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-139A	MB87-0	27	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-140A	MB87-1	5.1	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-141A	MB87-2	ND	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-142A	MB88-0	68	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-143A	MB88-1	ND	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-144A	MB88-2	ND	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106101
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106101-145A	MB89-0	26	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-146A	MB89-1	5.8	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-147A	MB89-2	ND	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-148A	MB90-0	75	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-149A	MB90-1	ND	mg/Kg	56205	5.0	1	6/23/2009	6/30/2009
106101-150A	MB90-2	ND	mg/Kg	56206	5.0	1	6/23/2009	6/30/2009
106101-151A	MB91-0	88	mg/Kg	56206	5.0	1	6/23/2009	6/30/2009
106101-152A	MB91-1	ND	mg/Kg	56206	5.0	1	6/23/2009	6/30/2009
106101-153A	MB91-2	ND	mg/Kg	56206	5.0	1	6/23/2009	6/30/2009
106101-154A	MB92-0	230	mg/Kg	56206	5.0	1	6/23/2009	6/30/2009
106101-155A	MB92-1	ND	mg/Kg	56206	5.0	1	6/23/2009	6/30/2009
106101-156A	MB92-2	ND	mg/Kg	56206	5.0	1	6/23/2009	6/30/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

pH
EPA 9045C

CLIENT: Geocon Consultants, Inc. Lab Order: 106101
 Project: I-5 N. Stockton, E8477-06-01 Date Received 6/24/2009 9:35:00 AM
 Project No: Matrix: Soil
 Analyte: pH Analyst: DDL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106101-010A	MB44-0	7.4	pH Units	R110258	0.10	1	6/22/2009	6/26/2009
106101-020A	MB47-1	8.5	pH Units	R110258	0.10	1	6/23/2009	6/26/2009
106101-030A	MB50-2	8.1	pH Units	R110258	0.10	1	6/23/2009	6/26/2009
106101-040A	MB53-0	8.0	pH Units	R110258	0.10	1	6/23/2009	6/26/2009
106101-050A	MB56-0	8.2	pH Units	R110258	0.10	1	6/23/2009	6/26/2009
106101-060A	MB60-2	8.3	pH Units	R110258	0.10	1	6/23/2009	6/26/2009
106101-070A	MB64-0	8.0	pH Units	R110258	0.10	1	6/23/2009	6/26/2009
106101-080A	MB67-1	8.4	pH Units	R110258	0.10	1	6/23/2009	6/26/2009
106101-090A	MB70-2	8.9	pH Units	R110258	0.10	1	6/23/2009	6/26/2009
106101-100A	MB74-0	8.1	pH Units	R110258	0.10	1	6/23/2009	6/26/2009
106101-110A	MB77-1	7.4	pH Units	R110263	0.10	1	6/23/2009	6/26/2009
106101-120A	MB80-2	7.6	pH Units	R110263	0.10	1	6/23/2009	6/26/2009
106101-130A	MB84-0	7.3	pH Units	R110263	0.10	1	6/23/2009	6/26/2009
106101-140A	MB87-1	8.2	pH Units	R110263	0.10	1	6/23/2009	6/26/2009
106101-150A	MB90-2	7.7	pH Units	R110263	0.10	1	6/23/2009	6/26/2009
106101-156A	MB92-2	7.6	pH Units	R110263	0.10	1	6/23/2009	6/26/2009

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out





Date: 30-Jun-09

Advanced Technology Laboratories

CLIENT: Gecon Consultants, Inc.

Work Order: 106101

Project: I-5 N. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID:	MB-56198A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110325		
Client ID:	PBS	Batch ID:	56198	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734177		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0	250.0	0	111	80	120				
Sample ID:	LCS-56198	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110325		
Client ID:	LCSS	Batch ID:	56198	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734178		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		277.873		5.0	250.0	0	111	80	120				
Sample ID:	106099-110A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110325		
Client ID:	ZZZZZZ	Batch ID:	56198	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734189		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		4.872		5.0						3.659	0	20	
Sample ID:	106099-110A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110325		
Client ID:	ZZZZZZ	Batch ID:	56198	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734190		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		180.271		5.0	250.0	3.659	70.6	33	120				
Sample ID:	MB-56198B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110325		
Client ID:	PBS	Batch ID:	56198	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/29/2009	SeqNo:	1734191		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- I1 Folding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106101-009A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110325						
Client ID: MB43-2	Batch ID: 56198	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734202						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.940	5.0						2.379	0	20	

Sample ID: 106101-009A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110325						
Client ID: MB43-2	Batch ID: 56198	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734203						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	184.509	5.0	250.0	2.379	72.9	33	120				

Sample ID: 106101-009A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110325						
Client ID: MB43-2	Batch ID: 56198	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/29/2009	SeqNo: 1734204						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	195.935	5.0	250.0	2.379	77.4	33	120	184.5	6.01	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



CLIENT: Geoxon Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT
TestCode: 6010_SPB

Sample ID: MB-56199A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110369						
Client ID: PBS	Batch ID: 56199	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735178						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.188	5.0									

Sample ID: LCS-56199	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110369						
Client ID: LCSS	Batch ID: 56199	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735179						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	271.255	5.0	250.0	0.1884	108	80	120				

Sample ID: 106101-019A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110369						
Client ID: MB47-0	Batch ID: 156199	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735190						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.879	5.0						6.318	7.20	20	

Sample ID: 106101-019A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110369						
Client ID: MB47-0	Batch ID: 56199	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735191						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	157.427	5.0	250.0	6.318	60.4	33	120				

Sample ID: MB-56199B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110369						
Client ID: PBS	Batch ID: 156199	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735192						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106101

Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106101-029A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110369						
Client ID: MB50-1	Batch ID: 56199	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735203						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.793	5.0						1.562	0	20	

Sample ID: 106101-029A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110369						
Client ID: MB50-1	Batch ID: 56199	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735204						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	152.876	5.0	250.0	1.562	60.5	33	120				

Sample ID: 106101-029A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110369						
Client ID: MB50-1	Batch ID: 56199	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735205						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	143.848	5.0	250.0	1.562	56.9	33	120	152.9	6.09	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- I Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Gecon Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT
TestCode: 6010_SPB

Sample ID:	MB-56200A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110370
Client ID:	PBS	Batch ID:	56200	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/30/2009	SeqNo:	1735252
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									
Sample ID:	LCS-56200	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110370</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110370</td>	RunNo:	110370
Client ID:	LCSS	Batch ID:	56200	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/30/2009 <td>SeqNo:</td> <td>1735253</td> </td>	Analysis Date:	6/30/2009 <td>SeqNo:</td> <td>1735253</td>	SeqNo:	1735253
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	266.708	5.0	250.0	0	107	80	120				
Sample ID:	106101-039A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110370</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110370</td>	RunNo:	110370
Client ID:	MB53-2	Batch ID:	56200	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/30/2009 <td>SeqNo:</td> <td>1735264</td> </td>	Analysis Date:	6/30/2009 <td>SeqNo:</td> <td>1735264</td>	SeqNo:	1735264
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.241	5.0						2.064	0	20	
Sample ID:	106101-039A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110370</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110370</td>	RunNo:	110370
Client ID:	MB53-2	Batch ID:	56200	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/30/2009 <td>SeqNo:</td> <td>1735265</td> </td>	Analysis Date:	6/30/2009 <td>SeqNo:</td> <td>1735265</td>	SeqNo:	1735265
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	149.282	5.0	250.0	2.064	58.9	33	120				
Sample ID:	MB-56200B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110370</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110370</td>	RunNo:	110370
Client ID:	PBS	Batch ID:	56200	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/30/2009 <td>SeqNo:</td> <td>1735266</td> </td>	Analysis Date:	6/30/2009 <td>SeqNo:</td> <td>1735266</td>	SeqNo:	1735266
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106101

Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106101-049A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110370						
Client ID: MB57-0	Batch ID: 56200	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735277						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.624	5.0						4.730	0		20

Sample ID: 106101-049A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110370						
Client ID: MB57-0	Batch ID: 56200	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735278						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	155.994	5.0	250.0	4.730	60.5	33	120				

Sample ID: 106101-049A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110370						
Client ID: MB57-0	Batch ID: 56200	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735279						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	164.532	5.0	250.0	4.730	63.9	33	120	156.0	5.33		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- JI Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106101

Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID:	MB-56201A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110371
Client ID:	PBS	Batch ID:	56201	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/30/2009	SeqNo:	1735281
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									
Sample ID:	LCS-56201	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110371</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110371</td>	RunNo:	110371
Client ID:	LCSS	Batch ID:	56201	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/30/2009 <td>SeqNo:</td> <td>1735282</td> </td>	Analysis Date:	6/30/2009 <td>SeqNo:</td> <td>1735282</td>	SeqNo:	1735282
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	261.495	5.0	250.0	0	105	80	120				
Sample ID:	106101-059A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110371</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110371</td>	RunNo:	110371
Client ID:	MB60-1	Batch ID:	56201	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/30/2009 <td>SeqNo:</td> <td>1735293</td> </td>	Analysis Date:	6/30/2009 <td>SeqNo:</td> <td>1735293</td>	SeqNo:	1735293
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.694	5.0						1.269	0	20	
Sample ID:	106101-059A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110371</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110371</td>	RunNo:	110371
Client ID:	MB60-1	Batch ID:	56201	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/30/2009 <td>SeqNo:</td> <td>1735294</td> </td>	Analysis Date:	6/30/2009 <td>SeqNo:</td> <td>1735294</td>	SeqNo:	1735294
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	169.451	5.0	250.0	1.269	67.3	33	120				
Sample ID:	MB-56201B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/29/2009 <td>RunNo:</td> <td>110371</td> </td>	Prep Date:	6/29/2009 <td>RunNo:</td> <td>110371</td>	RunNo:	110371
Client ID:	PBS	Batch ID:	56201	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>6/30/2009 <td>SeqNo:</td> <td>1735295</td> </td>	Analysis Date:	6/30/2009 <td>SeqNo:</td> <td>1735295</td>	SeqNo:	1735295
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC <td>LowLimit</td> <td>HighLimit</td> <td>RPD Ref Val</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.279	5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- I Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106101-069A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110371					
Client ID: MB63-2	Batch ID: 56201	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735306					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.238	5.0					1.868	0	20	

Sample ID: 106101-069A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110371					
Client ID: MB63-2	Batch ID: 56201	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735307					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	181.480	5.0	250.0	71.8	33	120				

Sample ID: 106101-069A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110371					
Client ID: MB63-2	Batch ID: 56201	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735308					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	113.058	5.0	250.0	44.5	33	120	181.5	46.5	20	R

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- F Calculations are based on mv values
- J1 Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106101

Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106101-089A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110372						
Client ID: MB70-1	Batch ID: 56202	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735334						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.748	5.0	250.0	2.313	59.0	33	120	2.313	0	20	

Sample ID: 106101-089A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110372						
Client ID: MB70-1	Batch ID: 56202	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735335						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	149.728	5.0	250.0	2.313	59.0	33	120	2.313	0	20	

Sample ID: 106101-089A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110372						
Client ID: MB70-1	Batch ID: 56202	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735336						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	151.212	5.0	250.0	2.313	59.6	33	120	149.7	0.986	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- EX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on rtw values



CLIENT: Gecon Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT
TestCode: 6010_SPB

Sample ID: MB-56203A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110376
Client ID: PBS	Batch ID: 56203	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735424
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	5.0			

Sample ID: LCS-56203	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110376
Client ID: LCSS	Batch ID: 56203	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735425
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	256.255	5.0	250.0	0	103

Sample ID: 106101-099A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110376
Client ID: MB73-2	Batch ID: 56203	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735436
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	4.770	5.0			

Sample ID: 106101-099A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110376
Client ID: MB73-2	Batch ID: 56203	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735437
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	163.065	5.0	250.0	1.513	64.6

Sample ID: MB-56203B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110376
Client ID: PBS	Batch ID: 56203	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735438
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	5.0			

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 II Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.

Work Order: 106101

Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106101-109A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110376						
Client ID: MB77-0	Batch ID: 56203	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735449						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.214	5.0						73.39	39.4	20	R

Sample ID: 106101-109A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110376						
Client ID: MB77-0	Batch ID: 56203	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735450						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	216.307	5.0	250.0	73.39	57.2	33	120				

Sample ID: 106101-109A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110376						
Client ID: MB77-0	Batch ID: 56203	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735451						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	152.516	5.0	250.0	73.39	31.6	33	120	216.3	34.6	20	SR

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID:	106101-129A-DUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110377
Client ID:	MB83-2	Batch ID:	56204	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/30/2009	SeqNo:	1735504
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	2.108	5.0						2.074	0	20	

Sample ID:	106101-129A-MS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110377
Client ID:	MB83-2	Batch ID:	56204	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/30/2009	SeqNo:	1735505
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	175.030	5.0	250.0	2.074	69.2	33	120				

Sample ID:	106101-129A-MSD	SampType:	MSD	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/29/2009	RunNo:	110377
Client ID:	MB83-2	Batch ID:	56204	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	6/30/2009	SeqNo:	1735506
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	173.836	5.0	250.0	2.074	68.7	33	120	175.0	0.685	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
 - NID Not Detected at the Reporting Limit
 - DC Surrogate Diluted Out
 - E Value above quantitation range
 - R RPD outside accepted recovery limits
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
- Calculations are based on raw values



CLIENT: Geokon Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT
TestCode: 6010_SPB

Sample ID: MB-56205A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	RunNo: 110380
Client ID: PBS	Batch ID: 56205	TestNo: EPA 6010B	EPA 3050M	SeqNo: 1735617
Analyte	Result	PQL	SPK value	SPK RefVal
	ND	5.0		
		%REC	LowLimit	HighLimit
			80	120
		%RPD	RPDLimit	Qual

Sample ID: LCS-56205	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	RunNo: 110380
Client ID: LCSS	Batch ID: 56205	TestNo: EPA 6010B	EPA 3050M	SeqNo: 1735618
Analyte	Result	PQL	SPK value	SPK RefVal
Lead	257.427	5.0	250.0	0
		%REC	LowLimit	HighLimit
			80	120
		%RPD	RPDLimit	Qual

Sample ID: 106101-139A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	RunNo: 110380
Client ID: MB87-0	Batch ID: 56205	TestNo: EPA 6010B	EPA 3050M	SeqNo: 1735629
Analyte	Result	PQL	SPK value	SPK RefVal
Lead	25.293	5.0		
		%REC	LowLimit	HighLimit
			26.93	6.29
		%RPD	RPDLimit	Qual

Sample ID: 106101-139A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	RunNo: 110380
Client ID: MB87-0	Batch ID: 56205	TestNo: EPA 6010B	EPA 3050M	SeqNo: 1735630
Analyte	Result	PQL	SPK value	SPK RefVal
Lead	193.294	5.0	250.0	26.93
		%REC	LowLimit	HighLimit
			33	120
		%RPD	RPDLimit	Qual

Sample ID: MB-56205B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	RunNo: 110380
Client ID: PBS	Batch ID: 56205	TestNo: EPA 6010B	EPA 3050M	SeqNo: 1735631
Analyte	Result	PQL	SPK value	SPK RefVal
Lead	ND	5.0		
		%REC	LowLimit	HighLimit
		%RPD	RPDLimit	Qual

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DX Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 S Spike/Surrogate outside of limits due to matrix interference
 I Holding times for preparation or analysis exceeded
 Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106101-149A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110380
Client ID: MB90-1	Batch ID: 56205	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735642
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	3.743	5.0	250.0	4.149	0
				HighLimit	RPDLimit
				120	20

Sample ID: 106101-149A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110380
Client ID: MB90-1	Batch ID: 56205	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735643
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	172.985	5.0	250.0	4.149	67.5
				HighLimit	RPDLimit
				120	20

Sample ID: 106101-149A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110380
Client ID: MB90-1	Batch ID: 56205	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735644
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	154.227	5.0	250.0	4.149	60.0
				HighLimit	RPDLimit
				120	20

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DC	Surrogate Diluted Out		Calculations are based on raw values		



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocom Consultants, Inc.

Work Order: 106101

Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID	MB-56206A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009	RunNo: 110381					
Client ID	PBS	Batch ID: 56206	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009	SeqNo: 1735645					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	ND	5.0									
Sample ID	LCS-56206	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009 <td>RunNo: 110381</td>	RunNo: 110381					
Client ID	LCSS	Batch ID: 56206	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009 <td>SeqNo: 1735646</td>	SeqNo: 1735646					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	253.342	5.0	250.0	0	101	80	120				
Sample ID	106101-156A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009 <td>RunNo: 110381</td>	RunNo: 110381					
Client ID	MB92-2	Batch ID: 56206	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009 <td>SeqNo: 1735654</td>	SeqNo: 1735654					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	1.682	5.0						2.087	0	20	
Sample ID	106101-156A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009 <td>RunNo: 110381</td>	RunNo: 110381					
Client ID	MB92-2	Batch ID: 56206	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009 <td>SeqNo: 1735655</td>	SeqNo: 1735655					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	160.119	5.0	250.0	2.087	63.2	33	120				
Sample ID	106101-156A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/29/2009 <td>RunNo: 110381</td>	RunNo: 110381					
Client ID	MB92-2	Batch ID: 56206	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 6/30/2009 <td>SeqNo: 1735656</td>	SeqNo: 1735656					
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	160.823	5.0	250.0	2.087	63.5	33	120	160.1	0.438	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - IX Surrogate Diluted Out
 - E Value above quantitation range
 - R RPD outside accepted recovery limits
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
- Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106101

Project: I-5 N. Stockton, E8477-06-01

TestCode: 9045_S

Sample ID: 106101-100ADUP	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 110258						
Client ID: MB74-0	Batch ID: R110258	TestNo: EPA 9045C		Analysis Date: 6/26/2009	SeqNo: 1732700						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.000	0.10						8.090	1.12	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geokon Consultants, Inc.

Work Order: 106101

Project: I-5 N. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: 106101-110ADUP	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 110263						
Client ID: MB77-1	Batch ID: R110263	TestNo: EPA 9045C		Analysis Date: 6/26/2009	SeqNo: 1732733						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.410	0.10						7.390	0.270	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DC Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- J1 Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technologies Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Method of Transport
 Client ATL CA OverN FEDEX Other: UPS
 Sample Condition Upon Receipt
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Logged By: [Signature] Date: 6/23/09
 P.O.#: _____
 2-4-4
 TEL: (949) 371-5900
 FAX: (949) 371-5915

Client: Geacon Consultants
 Attn: Lauren Vigliotti
 Project Name: I-S in Stockton
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/23/09
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/23/09
 Relinquished by: (Signature and Printed Name) _____ Date: _____

Address: 10077 Balsa St City: Livermore State: CA Zip Code: 94550
 Project #: 08477-06-01 Sampler: Lauren Vigliotti
 Received by: (Signature and Printed Name) [Signature] Date: 6/23/09 Time: 9:35
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments:
10% random - pit
do not composite

Send Report To:
 Attn: [Signature]
 Co: [Signature]
 Address: _____
 City: _____ State: _____ Zip: _____

Circle or Add Analysis(es) Requested
 808A (Pesticides)
 808C (PCB)
 808B (Metals)
 807B (Total Metals)
 801SB (GRO) / 802B (GTEX)
 801SB (DRO)
 802 (GTEX)
 801E 22 / CAM 17 (6010 / 7000)

QA/QC
 RTNE
 CT
 SWRCB
 Logcode _____
 OTHER _____
 REMARKS _____

LAB USE ONLY:	Sample Description		Date	Time
	Batch #	Sample I.D. / Location		
0601-001, 2, 3	MB41-0,1,2	6/23/09	1510	
4, 5, 6	MB42-0,1,2	1520		
7, 8, 9	MB43-0,1,2	1525		
10, 11, 12	MB44-0,1,2	1530		
13, 14, 15	MB45-0,1,2	1540		
16, 17, 18	MB40-0,1,2	6/23/09	0920	
19, 20, 21	MB47-0,1,2	0920		
22, 23, 24	MB48-0,1,2	0950		
25, 26, 27	MB49-0,1,2	1000		
28, 29, 30	MB50-0,1,2	1010		

SPECIFY APPROPRIATE MATRIX	CONTAINER(S)		TAT	Type	REMARKS
	#	Type			
SOIL			E 3		
WATER					
GROUND WATER					
WASTEWATER					

Preservatives:
 H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac) O=NaOH T=Na₂S₂O₃

Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 TAT: A= Overnight ≤ 24 hr B= Emergency Next workday
 C= 2 Workdays D= 3 Workdays E= 7 Workdays
 Critical: C= 2 Workdays Urgent: U= 3 Workdays Routine: R= 7 Workdays

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Method of Transport: Client ATL CA OverN FEDEX Other: _____

Sample Condition Upon Receipt: 1. CHILLED 2. HEADSPACE (VOA) 3. CONTAINER INTACT 4. SEALED 5. # OF SPLS MATCH COC 6. PRESERVED

P.O.#: _____ Date: _____

Logged By: _____

Client: Gecon Consultants Address: San Jose State: CA Zip Code: _____

Attn: Lauren Vigliotti City: _____ State: _____ Zip: _____

Project Name: T-5 N. Stockton Project #: ES477-000 Sampler: _____

Relinquished by: (Signature and Printed Name) Lauren Vigliotti Date: 10/23/09 Time: 15:15 Received by: (Signature and Printed Name) Mary Chy Date: 10/29/09 Time: 9:25

Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:

Project Mgr / Submitter: Lauren Vigliotti Date: 10/23/09

Print Name: _____ Signature: _____

Send Report To: _____

Attn: _____

Co: Same as

Address: _____

City: _____ State: _____ Zip: _____

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Sample Description		Date	Time
	Batch #:	Sample I.D. / Location		
	106101 - 01, 1, 2	MB51 - 0, 1, 2	1030	1030
	106102 - 01, 1, 2	MB52 - 0, 1, 2	1030	1030
	106103 - 01, 1, 2	MB53 - 0, 1, 2	1030	1030
	106104 - 01, 1, 2	MB54 - 0, 1, 2	1030	1030
	106105 - 01, 1, 2	MB55 - 0, 1, 2	1030	1030
	106106 - 01, 1, 2	MB56 - 0, 1, 2	1030	1030
	106107 - 01, 1, 2	MB57 - 0, 1, 2	1030	1030
	106108 - 01, 1, 2	MB58 - 0, 1, 2	1030	1030
	106109 - 01, 1, 2	MB59 - 0, 1, 2	1030	1030
	106110 - 01, 1, 2	MB60 - 0, 1, 2	1030	1030

Circle or Add Analysis(es) Requested: 801A (Pesticides) 8002 (PCB) 8200 (Nitrates) 8270C (BNA) 80108 (Total Metal) 80158 (GFO) / 8020 (BTEX) 8015B (GRO) 8021 (BTEX) MTLE 22 / CAM 17 (6010 / 7000)

Container(s): SOIL WATER GROUND WATER WASTEWATER

TAT: A= B= C= D= E=

Emergency Next workday: _____

Overnight ≤ 24 hr: _____

Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂SO₃

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Method of Transport
 Client ATL CA OverN FEDEX Other: _____
 Sample Condition Upon Receipt
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: Geacon Address: See page 1 State: _____
 Attn: Lauren Vigliotti City: _____ State: _____
 Project #: E8477-001 Sampler: Lauren Vigliotti (Signature)
 Relinquished by: (Signature and Printed Name) Lauren Vigliotti Date: 6/20/09 Time: 9:35
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments: See page 1
 Bill To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Circle or Add Analysis(es) Requested: _____
 802A (Pesticides) _____
 802 (PCB) _____
 8270C (BNA) _____
 8015B (Total Metals) (8015B / 8020 (RTEX)) _____
 8015B (DRO) _____
 8021 (RTEX) _____
 TITLE 22 / CAM 17 (8010 / 7000) _____

LAB USE ONLY:	Batch #:	Lab No.	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX		PRESERVATION		Q / QC
						Container(s)	Type	TAT	REMARKS	
136101	61, 62, 63		MB01 - 0, 1, 2	6/20	1130					
	64, 65, 66		MB02 - 0, 1, 2		1135					
	67, 68, 69		MB03 - 0, 1, 2		1145					
	70, 71, 72		MB04 - 0, 1, 2		1150					
	73, 74, 75		MB05 - 0, 1, 2		1155					
	76, 77, 78		MB06 - 0, 1, 2		1205					
	79, 80, 81		MB07 - 0, 1, 2		1210					
	82, 83, 84		MB08 - 0, 1, 2		1220					
	85, 86, 87		MB09 - 0, 1, 2		1225					
	88, 89, 90		MB70 - 0, 1, 2		1230					

• TAT starts 8 a.m. following day if samples received after 3 p.m.
 Container Types: T=Tube V=VOA L=Liter P=Plastic M=Metal
 TAT: A= Overnight ≤ 24 hr B= Emergency Next workday
 C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:



3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

Method of Transport
 Client
 ATL
 CA OverN
 FEDEX
 Other:

Sample Condition Upon Receipt
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

P.O.#: _____ Date: _____
 Logged By: _____

Client: Geocon Address: see page 1 TEL: _____
 Attn: Lauren Vigliotti City: _____ FAX: _____
 Project Name: I-5 N. Stockton Project #: ES477-a-a Sampler: Lauren Vigliotti (Signature)
 Relinquished by: (Signature and Printed Name) Date: 10/23/07 Time: 1:15 Received by: (Signature and Printed Name) Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) Date: _____ Time: _____ Received by: (Signature and Printed Name) Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) Date: _____ Time: _____ Received by: (Signature and Printed Name) Date: _____ Time: _____

Special Instructions/Comments: see page 1
 Bill To: _____
 Attn: _____
 Co: see page 1
 Address: _____ City: _____ State: _____ Zip: _____
 Address: _____ City: _____ State: _____ Zip: _____
 Address: _____ City: _____ State: _____ Zip: _____

Send Report To: _____
 Attn: _____
 Co: _____
 Address: _____ City: _____ State: _____ Zip: _____
 Address: _____ City: _____ State: _____ Zip: _____
 Address: _____ City: _____ State: _____ Zip: _____

ITEM	LAB USE ONLY:		Sample Description	Date	Time	Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX			PRESERVATION		Q.A./Q.C.
	Batch #:	Lab No.					WATER	GROUND WATER	WASTEWATER	Container(s)	Type	
106101-91,92,93		MB71-0,1,2	10/23/07	12:05		8015 (DRO)						
94,96,98		MB72-0,1,2		12:40		8015 (DRO)						
97,98,99		MB73-0,1,2		12:45		8015 (DRO)						
100,101,103		MB74-0,1,2		12:50		8015 (DRO)						
102,104,105		MB75-0,1,2		12:55		8015 (DRO)						
106,107,108		MB76-0,1,2		13:05		8015 (DRO)						
107,110,111		MB77-0,1,2		13:10		8015 (DRO)						
112,113,114		MB78-0,1,2		13:15		8015 (DRO)						
115,116,117		MB79-0,1,2		13:25		8015 (DRO)						
118,119,120		MB80-0,1,2		13:35		8015 (DRO)						

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 * TAT starts 8 a.m. following day if samples received after 3 p.m.
 DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

P.O.#: _____ Date: _____
 Logged By: _____

Method of Transport: Client ATL CA OverN FEDEX Other: _____
 Sample Condition Upon Receipt: 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH CCC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: Gecon Lauren Vigliotti Address: see page 1 State: _____ Zip Code: _____
 Attn: _____ City: _____ State: _____ Zip: _____
 Project Name: I-5 N. Stockton Project #: ES477-06-01 Sampler: Lauren Vigliotti (Signature) Lauren Vigliotti (Printed Name)
 Relinquished by: (Signature and Printed Name) Lauren Vigliotti Date: 6/23/09 Time: 1515
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr / Submitter: Lauren Vigliotti Date: 6/23/09
 Print Name: Lauren Vigliotti Signature: Lauren Vigliotti
 Send Report To: _____
 Attn: _____
 Co: 1
 Address: _____
 City: _____ State: _____ Zip: _____
 Bill To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Special Instructions/Comments: see page 1
 Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Batch #:	Sample Description	Sample I.D. / Location	Date	Time
	106601-121,122,123		MB81-0,1,2	6/23/09	1340
	124,125,126		MB82-0,1,2		1350
	127,128,129		MB83-0,1,2		1355
	130,131,132		MB84-0,1,2		1400
	133,134,135		MB85-0,1,2		1405
	136,137,138		MB86-0,1,2		1415
	139,140,141		MB87-0,1,2		1420
	142,143,144		MB88-0,1,2		1425
	145,146,147		MB89-0,1,2		1435
	148,149,150		MB90-0,1,2		1445

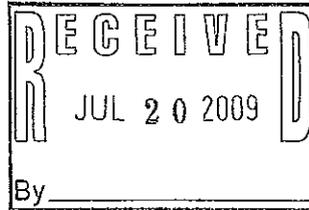
TAT: A= Overnight ≤ 24 hr B= Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 Container Types: T=Tube V=VOA L=Liter P=Plastic G=Glass B=Teclar J=Jar M=Metal
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

July 16, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915



ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196
Workorder No.: 106101

RE: I-5 N. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 24, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: I-5 N. Stockton, E8477-06-01
Lab Order: 106101

CASE NARRATIVE

Analytical Comments for Method 7420

Dilution was necessary for samples 106101-112A, 106101-124A, 106101-127A and 106101-154A, due to sample matrix.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 106199-027BMS and 106199-045BMS; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106101
Project:	1-5 N. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106101-109A	MB77-0	0.79	mg/L	56561	0.25	1	6/23/2009	7/15/2009
106101-112A	MB78-0	10	mg/L	56561	0.50	2	6/23/2009	7/15/2009
106101-115A	MB79-0	6.7	mg/L	56561	0.25	1	6/23/2009	7/15/2009
106101-118A	MB80-0	4.7	mg/L	56561	0.25	1	6/23/2009	7/15/2009
106101-124A	MB82-0	13	mg/L	56561	0.50	2	6/23/2009	7/15/2009
106101-127A	MB83-0	16	mg/L	56562	1.2	5	6/23/2009	7/15/2009
106101-136A	MB86-0	2.2	mg/L	56562	0.25	1	6/23/2009	7/15/2009
106101-142A	MB88-0	4.8	mg/L	56562	0.25	1	6/23/2009	7/15/2009
106101-148A	MB90-0	7.7	mg/L	56562	0.25	1	6/23/2009	7/15/2009
106101-151A	MB91-0	5.4	mg/L	56562	0.25	1	6/23/2009	7/15/2009
106101-154A	MB92-0	24	mg/L	56562	1.2	5	6/23/2009	7/15/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		





Date: 16-Jul-09

Advanced Technology Laboratories

CLIENT: Geoson Consultants, Inc.

Work Order: 106101

Project: I-5 N. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID:	MB-56561A	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110827			
Client ID:	PBS	Batch ID:	56561	TestNo:	WET/EPA 74 WET	SPK value	WET	Analysis Date:	7/15/2009	SeqNo:	1744422			
Analyte		Result		PQL	SPK value	SPK Ref Val	WET	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.25										
Sample ID:	LCS-56561	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110827			
Client ID:	LCSS	Batch ID:	56561	TestNo:	WET/EPA 74 WET	SPK value	WET	Analysis Date:	7/15/2009	SeqNo:	1744423			
Analyte		Result		PQL	SPK value	SPK Ref Val	WET	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		4.769		0.25	5.000	0	WET	95.4	80	120				
Sample ID:	106074-021A-DUP	SampType:	DUP	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110827			
Client ID:	ZZZZZZ	Batch ID:	56561	TestNo:	WET/EPA 74 WET	SPK value	WET	Analysis Date:	7/15/2009	SeqNo:	1744434			
Analyte		Result		PQL	SPK value	SPK Ref Val	WET	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		11.358		0.50							11.44	0.757	20	
Sample ID:	106074-021A-MS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110827			
Client ID:	ZZZZZZ	Batch ID:	56561	TestNo:	WET/EPA 74 WET	SPK value	WET	Analysis Date:	7/15/2009	SeqNo:	1744435			
Analyte		Result		PQL	SPK value	SPK Ref Val	WET	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		15.051		1.2	5.000	11.44	WET	72.1	80	120				S
Sample ID:	MB-56561B	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110827			
Client ID:	PBS	Batch ID:	56561	TestNo:	WET/EPA 74 WET	SPK value	WET	Analysis Date:	7/15/2009	SeqNo:	1744436			
Analyte		Result		PQL	SPK value	SPK Ref Val	WET	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.25										

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- IX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- I Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID: 106101-124A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110827
Client ID: M882-0	Batch ID: 56561	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744448
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	13.019	0.50			
				LowLimit	HighLimit
				12.79	1.75
					20
					%RPD
					RPDLimit
					Qual

Sample ID: 106101-124A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110827
Client ID: M882-0	Batch ID: 56561	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744449
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	17.960	1.2	5.000	12.79	103
				LowLimit	HighLimit
				80	120
					%RPD
					RPDLimit
					Qual

Sample ID: 106101-124A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110827
Client ID: M882-0	Batch ID: 56561	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744450
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	16.582	1.2	5.000	12.79	75.8
				LowLimit	HighLimit
				80	120
					%RPD
					RPDLimit
					Qual

Qualifiers:

- B Analytic detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spikes/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID: MB-56562A	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110828
Client ID: PBS	Batch ID: 56562	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744458
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
Lead					

Sample ID: LCS-56562	SampType: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110828
Client ID: LCSS	Batch ID: 56562	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744459
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	4.709	0.25	5.000	0	94.2
Lead					

Sample ID: 106111-010A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110828
Client ID: ZZZZZZ	Batch ID: 56562	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744470
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	1.987	0.25			
Lead					

Sample ID: 106111-010A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110828
Client ID: ZZZZZZ	Batch ID: 56562	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744471
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	6.608	0.25	5.000	1.975	92.7
Lead					

Sample ID: MB-56562B	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110828
Client ID: PBS	Batch ID: 56562	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744472
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
Lead					

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- I1 Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID: 106111-049A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110828						
Client ID: ZZZZZZ	Batch ID: 56562	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.501	0.25	5.000	1.566	1.566			1.566	4.21	20	

Sample ID: 106111-049A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110828						
Client ID: ZZZZZZ	Batch ID: 56562	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.213	0.25	5.000	1.566	92.9	80	120				

Sample ID: 106111-049A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110828						
Client ID: ZZZZZZ	Batch ID: 56562	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744485						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.183	0.25	5.000	1.566	92.4	80	120	6.213	0.479	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - R RPD outside accepted recovery limits
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
- Calculations are based on raw values

Diane Galvan

From: Lauren Vigliotti [vigliotti@geoconinc.com]
Sent: Thursday, July 09, 2009 11:10 AM
To: Diane Galvan
Subject: I-5 North Stockton

Hi Diane:
Please run the following samples for WET lead, under standard TAT. Please provide results in excel format, thanks!

WO#106074
WB20-o WB19-o WB21-o WB3-o WB11-o WB16-o WB1-o WB4-o WB7-o WB6-o

WO#106077
MB1-o MB24-o MB2-o MB34-o MB19-o

WO#106101
MB92-o MB83-o MB77-o MB78-o MB80-o MB82-o MB86-o MB79-o MB91-o MB90-o MB88-o

WO#106111
MB93-o MB100-o MB109-1 MB97-o MB105-o MB102-o MB94-o MB107-o MB114-o MB108-o MB106-o
MB103-o MB109-o MB95-o
MB98-o MB111-o MB96-o

Thanks!

Lauren Vigliotti
Senior Staff Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc
6671 Brisa Street
Livermore, CA 94550
Tel (925) 371-5900
Cell (925) 768-9874



GEOTECHNICAL ENVIRONMENTAL MATERIALS

San Diego Murrieta Burbank San Bernardino Bakersfield Sacramento Livermore Carson City Las Vegas Portland

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July 27, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106101

RE: I-5 N. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 24, 2009 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie F. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

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ANALYTICAL RESULTS

**LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106101
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106101-112A	MB78-0	0.88	mg/L	56748	0.25	1	6/23/2009	7/23/2009
106101-115A	MB79-0	ND	mg/L	56748	0.25	1	6/23/2009	7/23/2009
106101-124A	MB82-0	ND	mg/L	56748	0.25	1	6/23/2009	7/23/2009
106101-127A	MB83-0	0.95	mg/L	56748	0.25	1	6/23/2009	7/23/2009
106101-148A	MB90-0	0.51	mg/L	56748	0.25	1	6/23/2009	7/23/2009
106101-151A	MB91-0	0.63	mg/L	56748	0.25	1	6/23/2009	7/23/2009
106101-154A	MB92-0	3.0	mg/L	56748	0.25	1	6/23/2009	7/23/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



LEAD BY ATOMIC ABSORPTION (TCLP)

ANALYTICAL RESULTS

EPA 1311/ 7420

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106101
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/24/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106101-112A	MB78-0	ND	mg/L	56809	0.25	1	6/23/2009	7/24/2009
106101-124A	MB82-0	ND	mg/L	56809	0.25	1	6/23/2009	7/24/2009
106101-127A	MB83-0	ND	mg/L	56809	0.25	1	6/23/2009	7/24/2009
106101-154A	MB92-0	ND	mg/L	56809	0.62	1	6/23/2009	7/24/2009

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out





Date: 27-Jul-09

Advanced Technology Laboratories

ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.

Work Order: 106101

Project: I-5 N. Stockton, E8477-06-01

TestCode: 7420_DI

Sample ID:	MB-56748A	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111092
Client ID:	PBS	Batch ID:	56748	TestNo:	WET DI/EPA WET	Analysis Date:	7/23/2009	SeqNo:	1749852	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	LCS-56748	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111092
Client ID:	LCSS	Batch ID:	56748	TestNo:	WET DI/EPA WET	Analysis Date:	7/23/2009	SeqNo:	1749853	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.730	0.25	5.000	0	94.6	80	120				
Sample ID:	106111-022A-DUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111092
Client ID:	ZZZZZZ	Batch ID:	56748	TestNo:	WET DI/EPA WET	Analysis Date:	7/23/2009	SeqNo:	1749864	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.757	0.25						0.6702	12.1	20	
Sample ID:	106111-022A-MS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111092
Client ID:	ZZZZZZ	Batch ID:	56748	TestNo:	WET DI/EPA WET	Analysis Date:	7/23/2009	SeqNo:	1749865	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.064	0.25	5.000	0.6702	87.9	70	130				
Sample ID:	MB-56748B	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111092
Client ID:	PBS	Batch ID:	56748	TestNo:	WET DI/EPA WET	Analysis Date:	7/23/2009	SeqNo:	1749866	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

TestCode: 7420_DI

Sample ID: 106121-088A-DUP	SampType: DUP	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111092						
Client ID: ZZZZZZ	Batch ID: 56748	TestNo: WET DI/EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749877						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.738	0.25						1.873	7.48		20

Sample ID: 106121-088A-MS	SampType: MS	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111092						
Client ID: ZZZZZZ	Batch ID: 56748	TestNo: WET DI/EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749878						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.376	0.25	5.000	1.873	90.1	70	130				

Sample ID: 106121-088A-MSD	SampType: MSD	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111092						
Client ID: ZZZZZZ	Batch ID: 56748	TestNo: WET DI/EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749879						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.170	0.25	5.000	1.873	85.9	70	130	6.376	3.29		20

Qualifiers:

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- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

CLIENT: Geoson Consultants, Inc.
Work Order: 106101
Project: I-5 N. Stockton, E8477-06-01

Sample ID:	MB-56809A	SampType:	MBLK	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/23/2009	RunNo:	111105
Client ID:	PBS	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009	SeqNo:	1750207
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	MB-56783A TCLP	SampType:	MBLK	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/23/2009 <td>RunNo:</td> <td>111105</td>	RunNo:	111105
Client ID:	PBS	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009 <td>SeqNo:</td> <td>1750208</td>	SeqNo:	1750208
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	LCS-56809	SampType:	LCS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/23/2009 <td>RunNo:</td> <td>111105</td>	RunNo:	111105
Client ID:	LCSS	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009 <td>SeqNo:</td> <td>1750209</td>	SeqNo:	1750209
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.186	0.25	1.000	0	119	80	120				
Sample ID:	106099-028A-DUP	SampType:	DUP	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/23/2009 <td>RunNo:</td> <td>111105</td>	RunNo:	111105
Client ID:	ZZZZZZ	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009 <td>SeqNo:</td> <td>1750218</td>	SeqNo:	1750218
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.378	0.25						0.4193	10.2	20	
Sample ID:	106099-028A-MS	SampType:	MS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	7/23/2009 <td>RunNo:</td> <td>111105</td>	RunNo:	111105
Client ID:	ZZZZZZ	Batch ID:	56809	TestNo:	EPA 1311/74 EPA3010A			Analysis Date:	7/24/2009 <td>SeqNo:</td> <td>1750220</td>	SeqNo:	1750220
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.719	0.25	2.500	0.4193	92.0	70	130				

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 S Spike/Surrogate outside of limits due to matrix interference
 II Holding times for preparation or analysis exceeded
 Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106101

Project: I-5 N. Stockton, E8477-06-01

TestCode: 7420_TC

Sample ID: MB-56809B	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: PBS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750221
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: MB-56783B TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: PBS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750222
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: 106121-052A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750233
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: 106121-052A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750234
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	2.831	0.25	2.500	0	113
			LowLimit	HighLimit	RPD Ref Val
				70	130
					%RPD
					RPDLimit
					Qual

Sample ID: 106121-052A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750235
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	2.946	0.25	2.500	0	118
			LowLimit	HighLimit	RPD Ref Val
				70	130
					%RPD
					RPDLimit
					Qual

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference

Diane Galvan

From: Lauren Vigliotti [vigliotti@geoconinc.com]
Sent: Monday, July 20, 2009 4:19 PM
To: Diane Galvan
Subject: I-5 North Stockton

HI Diane:
Please run the following for soluble lead under standard TAT:

WO#106074 –
WET-DI and TCLP: WB21-o WB20-o WB19-o

WO#106077 –
WET-DI only: MB2-o
WET-DI and TCLP: MB1-o

WO#106099 –
WET-DI only: SB4-o SB22-o SB20-o SB18-2 SB17-o SB14-o SB13-o SB12-o
WET-DI and TCLP: SB2-o SB3-o SB5-o SB6-o SB7-o SB11-o SB10-o

WO#106101 –
WET-DI only: MB79-o MB91-o MB90-o
WET-DI and TCLP: MB92-o MB83-o MB82-o MB78-o

WO#106111 –
WET-DI only: MB107-o
WET-DI and TCLP: MB97-o MB93-o MB100-o

WO#106121 –
WET-DI only: SB70-o SB60-1 SB51-o
WET-DI and TCLP: SB69-o SB68-o SB67-o SB65-o SB60-o SB59-o SB56-o SB55-o SB47-o

Thanks!

Lauren Vigliotti
Senior Staff Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc

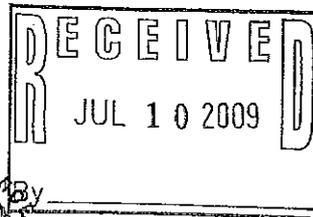
6671 Brisa Street
Livermore, CA 94550
Tel (925) 371-5900
Cell (925) 768-9874



GEOTECHNICAL ENVIRONMENTAL MATERIALS

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July 02, 2009

Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
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ELAP No.: 1838
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Workorder No.: 106111

RE: I-5 N. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 25, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: I-5 N. Stockton, E8477-06-01
Lab Order: 106111

CASE NARRATIVE

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 106111-010ADUP, 106111-030ADUP and 106121-004DUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106111
Project:	1-5 N. Stockton, E8477-06-01	Date Received	6/25/2009 9:00:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106111-001A	MB93-0	270	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-002A	MB93-1	6.6	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-003A	MB93-2	ND	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-004A	MB94-0	100	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-005A	MB94-1	ND	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-006A	MB94-2	5.4	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-007A	MB95-0	70	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-008A	MB95-1	5.3	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-009A	MB95-2	5.0	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-010A	MB96-0	50	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-011A	MB96-1	5.5	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-012A	MB96-2	ND	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-013A	MB97-0	150	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-014A	MB97-1	7.9	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-015A	MB97-2	ND	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-016A	MB98-0	58	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-017A	MB98-1	6.2	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-018A	MB98-2	ND	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106111
Project:	1-5 N. Stockton, E8477-06-01	Date Received	6/25/2009 9:00:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106111-019A	MB99-0	33	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-020A	MB99-1	8.0	mg/Kg	56272	5.0	1	6/24/2009	7/1/2009
106111-021A	MB99-2	ND	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-022A	MB100-0	240	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-023A	MB100-1	ND	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-024A	MB100-2	6.8	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-025A	MB101-0	38	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-026A	MB101-1	5.2	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-027A	MB101-2	7.5	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-028A	MB102-0	110	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-029A	MB102-1	5.5	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-030A	MB102-2	ND	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-031A	MB103-0	75	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-032A	MB103-1	13	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-033A	MB103-2	8.2	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-034A	MB104-0	33	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-035A	MB104-1	ND	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-036A	MB104-2	ND	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
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	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106111
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/25/2009 9:00:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106111-037A	MB105-0	130	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-038A	MB105-1	6.3	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-039A	MB105-2	ND	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-040A	MB106-0	80	mg/Kg	56273	5.0	1	6/24/2009	7/1/2009
106111-041A	MB106-1	19	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-042A	MB106-2	16	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-043A	MB107-0	98	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-044A	MB107-1	5.4	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-045A	MB107-2	ND	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-046A	MB108-0	86	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-047A	MB108-1	ND	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-048A	MB108-2	ND	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-049A	MB109-0	73	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-050A	MB109-1	230	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-051A	MB109-2	ND	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-052A	MB110-0	26	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-053A	MB110-1	ND	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-054A	MB110-2	ND	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106111
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/25/2009 9:00:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106111-055A	MB111-0	51	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-056A	MB111-1	6.1	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-057A	MB111-2	ND	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-058A	MB112-0	39	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-059A	MB112-1	ND	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-060A	MB112-2	ND	mg/Kg	56274	5.0	1	6/24/2009	7/1/2009
106111-061A	MB113-0	33	mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106111-062A	MB113-1	ND	mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106111-063A	MB113-2	ND	mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106111-064A	MB114-0	97	mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106111-065A	MB114-1	ND	mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106111-066A	MB114-2	ND	mg/Kg	56275	5.0	1	6/24/2009	7/1/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**pH
EPA 9045C**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106111
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/25/2009 9:00:00 AM
Project No:		Matrix:	Soil
Analyte:	pH	Analyst:	DDL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106111-002A	MB93-1	7.2	pH Units	R110328	0.10	1	6/24/2009	6/29/2009
106111-013A	MB97-0	7.0	pH Units	R110328	0.10	1	6/24/2009	6/29/2009
106111-024A	MB100-2	7.1	pH Units	R110328	0.10	1	6/24/2009	6/29/2009
106111-035A	MB104-1	7.2	pH Units	R110328	0.10	1	6/24/2009	6/29/2009
106111-046A	MB108-0	7.8	pH Units	R110328	0.10	1	6/24/2009	6/29/2009
106111-057A	MB111-2	7.7	pH Units	R110328	0.10	1	6/24/2009	6/29/2009
106111-061A	MB113-0	7.4	pH Units	R110328	0.10	1	6/24/2009	6/29/2009

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	





Date: 02-Jul-09

Advanced Technology Laboratories

CLIENT: Geokon Consultants, Inc.
Work Order: 106111
Project: I-5 N. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID:	MB-56272A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/30/2009	RunNo:	110409		
Client ID:	PBS	Batch ID:	56272	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	7/1/2009	SeqNo:	1736333		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0									
Sample ID:	LCS-56272	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/30/2009	RunNo:	110409		
Client ID:	LCSS	Batch ID:	56272	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	7/1/2009	SeqNo:	1736334		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		270.897		5.0	250.0	0	108	80	120				
Sample ID:	106111-010ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/30/2009	RunNo:	110409		
Client ID:	MB96-0	Batch ID:	56272	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	7/1/2009	SeqNo:	1736345		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		63.718		5.0						50.40	23.3	20	R
Sample ID:	106111-010AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/30/2009	RunNo:	110409		
Client ID:	MB96-0	Batch ID:	56272	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	7/1/2009	SeqNo:	1736346		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		278.211		5.0	250.0	50.40	91.1	33	120				
Sample ID:	MB-56272B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/30/2009	RunNo:	110409		
Client ID:	PBS	Batch ID:	56272	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	7/1/2009	SeqNo:	1736347		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.125		5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.

Work Order: 106111

Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106111-020ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110409						
Client ID: MB99-1	Batch ID: 56272	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736358						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.482	5.0						8.006	5.78		20

Sample ID: 106111-020AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110409						
Client ID: MB99-1	Batch ID: 56272	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736359						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	231.829	5.0	250.0	8.006	89.5	33	120				

Sample ID: 106111-020AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110409						
Client ID: MB99-1	Batch ID: 56272	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736360						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	236.145	5.0	250.0	8.006	91.3	33	120	231.8	1.84		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- NID Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- T1 Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.

Work Order: 106111

Project: 1-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID:	MB-56273A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	6/30/2009	RunNo:	110414
Client ID:	PBS	Batch ID:	56273	TestNo:	EPA 6010B	EPA	3050M	Analysis Date:	7/1/2009	SeqNo:	1736440
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.202	5.0									
Sample ID:	LCS-56273	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/30/2009 <td>RunNo:</td> <td>110414</td> </td>	Prep Date:	6/30/2009 <td>RunNo:</td> <td>110414</td>	RunNo:	110414
Client ID:	LCSS	Batch ID:	56273	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>7/1/2009 <td>SeqNo:</td> <td>1736441</td> </td>	Analysis Date:	7/1/2009 <td>SeqNo:</td> <td>1736441</td>	SeqNo:	1736441
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	282.192	5.0	250.0	0.2024	113	80	120				
Sample ID:	106111-030ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/30/2009 <td>RunNo:</td> <td>110414</td> </td>	Prep Date:	6/30/2009 <td>RunNo:</td> <td>110414</td>	RunNo:	110414
Client ID:	MB102-2	Batch ID:	56273	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>7/1/2009 <td>SeqNo:</td> <td>1736453</td> </td>	Analysis Date:	7/1/2009 <td>SeqNo:</td> <td>1736453</td>	SeqNo:	1736453
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.461	5.0						3.914	98.2	20	R
Sample ID:	106111-030AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/30/2009 <td>RunNo:</td> <td>110414</td> </td>	Prep Date:	6/30/2009 <td>RunNo:</td> <td>110414</td>	RunNo:	110414
Client ID:	MB102-2	Batch ID:	56273	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>7/1/2009 <td>SeqNo:</td> <td>1736454</td> </td>	Analysis Date:	7/1/2009 <td>SeqNo:</td> <td>1736454</td>	SeqNo:	1736454
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	224.875	5.0	250.0	3.914	88.4	33	120				
Sample ID:	MB-56273B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg <td>Prep Date:</td> <td>6/30/2009 <td>RunNo:</td> <td>110414</td> </td>	Prep Date:	6/30/2009 <td>RunNo:</td> <td>110414</td>	RunNo:	110414
Client ID:	PBS	Batch ID:	56273	TestNo:	EPA 6010B	EPA	3050M <td>Analysis Date:</td> <td>7/1/2009 <td>SeqNo:</td> <td>1736455</td> </td>	Analysis Date:	7/1/2009 <td>SeqNo:</td> <td>1736455</td>	SeqNo:	1736455
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.168	5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- J1 Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106111
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106111-040ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110414						
Client ID: MB106-0	Batch ID: 56273	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	74.969	5.0						79.63	6.03		20

Sample ID: 106111-040AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110414						
Client ID: MB106-0	Batch ID: 56273	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736467						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	291.427	5.0	250.0	79.63	84.7	33	120				

Sample ID: 106111-040AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110414						
Client ID: MB106-0	Batch ID: 56273	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736468						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	294.473	5.0	250.0	79.63	85.9	33	120	291.4	1.04		20

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on mv values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106111
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: MB-56274A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110415						
Client ID: PBS	Batch ID: 56274	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736470						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-56274	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110415						
Client ID: LCSS	Batch ID: 56274	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736471						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	286.589	5.0	250.0	0	115	80	120				

Sample ID: MB-56274B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110415						
Client ID: PBS	Batch ID: 56274	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.164	5.0									

Sample ID: 106111-060ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110415						
Client ID: MB112-2	Batch ID: 56274	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736495						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.469	5.0						3.567	0	20	

Sample ID: 106111-060AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110415						
Client ID: MB112-2	Batch ID: 56274	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736496						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	226.341	5.0	250.0	3.567	89.1	33	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H 1 holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocon Consultants, Inc.
Work Order: 106111
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106111-060AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110415						
Client ID: MB112-2	Batch ID: 56274	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736497						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	232.682	5.0	250.0	3.587	91.6	33	120	226.3	2.76	20	

Sample ID: 106111-049ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110415						
Client ID: MB109-0	Batch ID: 56274	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736715						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	69.570	5.0						73.11	4.97	20	

Sample ID: 106111-049AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110415						
Client ID: MB109-0	Batch ID: 56274	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736716						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Lead	271.795	5.0	250.0	73.11	79.5	33	120				

Qualifiers:
 B Analyte detected in the associated Method Blank
 NID Not Detected at the Reporting Limit
 DC Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 II Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106111
Project: I-5 N. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: MB-56275A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	RunNo: 110416
Client ID: PBS	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	SeqNo: 1736499
Analyte	Result	PQL	SPK value	SPK RefVal
	ND	5.0		
		%REC	LowLimit	HighLimit
			RPD RefVal	RPD RefVal
			%RPD	RPDLimit
			Qual	Qual

Sample ID: LCS-56275	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	RunNo: 110416
Client ID: LCSS	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	SeqNo: 1736500
Analyte	Result	PQL	SPK value	SPK RefVal
Lead	282.468	5.0	250.0	0
		%REC	LowLimit	HighLimit
			RPD RefVal	RPD RefVal
			%RPD	RPDLimit
			Qual	Qual

Sample ID: 106121-004ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	RunNo: 110416
Client ID: ZZZZZZ	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	SeqNo: 1736511
Analyte	Result	PQL	SPK value	SPK RefVal
Lead	25.587	5.0		
		%REC	LowLimit	HighLimit
			RPD RefVal	RPD RefVal
			%RPD	RPDLimit
			Qual	Qual

Sample ID: 106121-004AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	RunNo: 110416
Client ID: ZZZZZZ	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	SeqNo: 1736512
Analyte	Result	PQL	SPK value	SPK RefVal
Lead	250.809	5.0	250.0	20.41
		%REC	LowLimit	HighLimit
			RPD RefVal	RPD RefVal
			%RPD	RPDLimit
			Qual	Qual

Sample ID: MB-56275B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	RunNo: 110416
Client ID: PBS	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	SeqNo: 1736513
Analyte	Result	PQL	SPK value	SPK RefVal
Lead	0.171	5.0		
		%REC	LowLimit	HighLimit
			RPD RefVal	RPD RefVal
			%RPD	RPDLimit
			Qual	Qual

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- F Calculations are based on raw values
- J1 Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

CLIENT: Gecon Consultants, Inc.
Work Order: 106111
Project: I-5 N. Stockton, ES477-06-01

Sample ID: 106121-014ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110416						
Client ID: ZZZZZZ	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736524						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.561	5.0						2.903	0		20

Sample ID: 106121-014AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110416						
Client ID: ZZZZZZ	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736525						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	213.881	5.0	250.0	2.903	84.4	33	120				

Sample ID: 106121-014AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110416						
Client ID: ZZZZZZ	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736526						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.631	5.0	250.0	2.903	88.3	33	120	213.9	4.46		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- F Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geokon Consultants, Inc.
Work Order: 106111
Project: I-5 N. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: 106111-002ADUP	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 110328					
Client ID: MB93-1	Batch ID: R110328	TestNo: EPA 9045C		Analysis Date: 6/29/2009	SeqNo: 1734242					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.270	0.10					7.220	0.690		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- I Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Client: Gecon Consultants pink
 Attn: Lauren Vigliotti
 Project Name: I-5 N Stockton
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/24/09
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/24/09
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/24/09

Method of Transport: Client ATL CA OverN FEDEX Other: None
 Sample Condition Upon Receipt: 1. CHILLED 2. HEADSPACE (VOA) 3. CONTAINER INTACT 4. SEALED 5. # OF SPLS MATCH COC 6. PRESERVED

P.O.#: _____ Date: 6/25/09
 Logged By: _____

Address: 6067 BRISA STREET City: LIVERMORE State: CA Zip Code: 94550
 Project #: E8477-000 Sampler: Lauren Vigliotti (Signature) [Signature]
 Received by: (Signature and Printed Name) Mary Ann Gannon Date: 6/25/09 Time: 5:00
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Bill To: _____
 Attn: leave
 Address: _____
 City: _____ State: _____ Zip: _____
 Circle or Add Analysis(es) Requested: _____
 Title 22 / CAM 17 (6070 / 7000)
 80158 (DFO) _____
 80158 (GRN) / 8020 (GTEX) _____
 80108 (Total Metals) _____
 80720C (GMA) _____
 80608 (Volatiles) _____
 802 (PCB) _____
 801A (Pesticides) _____

Special Instructions/Comments:
10% randomly select - PH. do not composite

LAB USE ONLY:	Batch #:	Lab No.	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX		PRESERVATION		QA/QC											
						Container(s)	Type	TAT	#		RTNE	CT	SWRCB Logcode	OTHER	REMARKS						
			MB93 - 0,1,2	6/24/09	0910																
			MB94 - 0,1,2		0910																
			MB95 - 0,1,2		0910																
			MB96 - 0,1,2		0915																
			MB97 - 0,1,2		0930																
			MB98 - 0,1,2		0935																
			MB99 - 0,1,2		0945																
			MB100 - 0,1,2		0950																
			MB101 - 0,1,2		0955																
			MB102 - 0,1,2		1000																

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
 Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

TAT: A= Overnight ≤ 24 hr
 B= Emergency Next workday
 Container Types: T=Tube V=VOA L=Liter P=Plastic M=Metal
 C=Critical 2 Workdays D=Urgent 3 Workdays E=Routine 7 Workdays
 Preservatives: H=Hcl N=HNO3 S=H2SO4 C=4°C
 Z=Zn(AC)2 O=NaOH T=Na2S2O8

DISTRIBUTION: White with report, Yellow to folder, Pink to submittor.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technologies Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Method of Transport: Client ATL CA OverN FEDEX Other: _____
 Sample Condition Upon Receipt: 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

P.O.#: _____ Date: 6/25/97
 Logged By: _____
 Address: _____ City: _____ State: _____ Zip Code: _____
 TEL: (_____) _____ FAX: (_____) _____

Client: Gecon Consultants
 Attn: LAWREN VIGLIOTTI
 Project #: E847706-01 Sampler: LAWREN VIGLIOTTI
 Relinquished by: (Signature and Printed Name) LAWREN VIGLIOTTI Date: 6/24/97 Time: 10:00
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr / Submitter: LAWREN VIGLIOTTI Date: 6/24/97
 Signature: LAWREN VIGLIOTTI
 Send Report To: _____
 Attn: _____
 Co: See page 1
 Address: _____
 City: _____ State: _____ Zip: _____

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Sample Description	Sample I.D. / Location	Date	Time
10C11 - 31, 32, 33	MB103 - 0,1,2		6/24/97	10:00
- 34, 35, 36	MB104 - 0,1,2			10:05
- 37, 38, 39	MB105 - 0,1,2			10:10
- 40, 41, 42	MB106 - 0,1,2			10:15
- 43, 44, 45	MB107 - 0,1,2			10:20
- 46, 47, 48	MB108 - 0,1,2			10:25
- 49, 50, 51	MB109 - 0,1,2			10:30
- 52, 53, 54	MB110 - 0,1,2			10:35
- 55, 56, 57	MB111 - 0,1,2			10:40
- 58, 59, 60	MB112 - 0,1,2			10:45

TAT: A = Overnight ≤ 24 hr B = Emergency Next workday
 C = Critical 2 Workdays D = Urgent 3 Workdays E = Routine 7 Workdays
 Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

Special Instructions/Comments:
See page 1

SPECIFY APPROPRIATE MATRIX	PRESERVATION		REMARKS
	Container(s)	Type	
SOIL			
WATER			
GROUND WATER			
WASTEWATER			

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technologies Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Client: Geon Consultants
 Attn: Lauren Valiotti
 Project Name: I-5 N. Stockton
 Relinquished by: (Signature and Printed Name) Lauren Valiotti Date: 6/24/09
 Relinquished by: (Signature and Printed Name) Lauren Valiotti Date: 6/24/09
 Relinquished by: (Signature and Printed Name) _____ Date: _____

Method of Transport: Client ATL CA OverN FEDEX Other: _____
 Sample Condition Upon Receipt: 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Logged By: [Signature] Date: 6/25/09
 Address: See page 1 City: _____ State: _____ Zip Code: _____
 Project #: ES477-0001 Sampler: Lauren Valiotti (Printed Name) Lauren Valiotti (Signature)
 Received by: (Signature and Printed Name) [Signature] Date: 6/25/09 Time: 9:00
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments: See page 1

Bill To: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Circle or Add Analysis(es) Requested: _____
 8081A (Pesticides) _____
 8082 (PCB) _____
 8200B (Metals) _____
 8270C (BNA) _____
 80108 (Total Metals) _____
 80158 (GRO) / 8020 (BTEX) _____
 80158 (GRO) / 8020 (BTEX) _____
 8021 (BTEX) _____
 8021 (BTEX) _____
 TITLE 22 / CAM 17 (6010 / 7000) _____

LAB USE ONLY:	Sample Description	Sample I.D. / Location	Date	Time
100111 - 616453	MB113-0,1,2	MB113-0,1,2	6/24/09	1115
1 - 67,67,64	MB114-0,1,2	MB114-0,1,2	6/24/09	1120

SPECIFY APPROPRIATE MATRIX		CONTAINER(S)		TAT	Type	REMARKS
SOIL	GROUND WATER	WASTEWATER	Container #			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	E 3 P	E 3 P		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	E 3 P	E 3 P		

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

Container Types: T=Tube V=VOA L=Liter P=Pin L=Jar B=Tedlar J=Jar G=Glass P=Plastic M=Metal
 TAT: A= Overmight ≤ 24 hr B= Next workday
 Emergency Next workday
 Routine Workdays E=7 Workdays
 Urgent Workdays D= 3 Workdays

• TAT starts 8 a.m. following day if samples received after 3 p.m.

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

July 16, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106111

RE: I-5 N. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 25, 2009 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie F. Rodriguez".

for Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: I-5 N. Stockton, E8477-06-01
Lab Order: 106111

CASE NARRATIVE

Analytical Comments for Method 7420

Dilution was necessary for samples 106111-001A and 106111-022A, due to sample matrix.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 106199-027BMS and 106199-045BMS; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106111
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/25/2009 9:00:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106111-001A	MB93-0	17	mg/L	56562	1.2	5	6/24/2009	7/15/2009
106111-004A	MB94-0	4.6	mg/L	56562	0.25	1	6/24/2009	7/15/2009
106111-007A	MB95-0	2.9	mg/L	56562	0.25	1	6/24/2009	7/15/2009
106111-010A	MB96-0	2.0	mg/L	56562	0.25	1	6/24/2009	7/15/2009
106111-013A	MB97-0	6.3	mg/L	56562	0.25	1	6/24/2009	7/15/2009
106111-016A	MB98-0	2.1	mg/L	56562	0.25	1	6/24/2009	7/15/2009
106111-022A	MB100-0	12	mg/L	56562	0.50	2	6/24/2009	7/15/2009
106111-028A	MB102-0	2.6	mg/L	56562	0.25	1	6/24/2009	7/15/2009
106111-031A	MB103-0	2.2	mg/L	56562	0.25	1	6/24/2009	7/15/2009
106111-037A	MB105-0	3.9	mg/L	56562	0.25	1	6/24/2009	7/15/2009
106111-040A	MB106-0	2.9	mg/L	56562	0.25	1	6/24/2009	7/15/2009
106111-043A	MB107-0	5.4	mg/L	56562	0.25	1	6/24/2009	7/15/2009
106111-046A	MB108-0	3.8	mg/L	56562	0.25	1	6/24/2009	7/15/2009
106111-049A	MB109-0	1.6	mg/L	56562	0.25	1	6/24/2009	7/15/2009
106111-050A	MB109-1	ND	mg/L	56563	0.25	1	6/24/2009	7/15/2009
106111-055A	MB111-0	ND	mg/L	56563	0.25	1	6/24/2009	7/15/2009
106111-064A	MB114-0	0.32	mg/L	56563	0.25	1	6/24/2009	7/15/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		





Advanced Technology Laboratories

CLIENT: Geocom Consultants, Inc.
Work Order: 106111
Project: I-5 N. Stockton, E8477-06-01

Date: 16-Jul-09

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID:	MB-56562A	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110828
Client ID:	PBS	Batch ID:	56562	TestNo:	WET/EPA 74 WET	Analysis Date:	7/15/2009	SeqNo:	1744458		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	LCS-56562	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110828
Client ID:	LCSS	Batch ID:	56562	TestNo:	WET/EPA 74 WET	Analysis Date:	7/15/2009	SeqNo:	1744459		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.709	0.25	5.000	0	94.2	80	120				
Sample ID:	106111-010A-DUP	SampType:	DUP	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110828
Client ID:	MB996-0	Batch ID:	56562	TestNo:	WET/EPA 74 WET	Analysis Date:	7/15/2009	SeqNo:	1744470		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.987	0.25						1.975	0.654	20	
Sample ID:	106111-010A-MS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110828
Client ID:	MB996-0	Batch ID:	56562	TestNo:	WET/EPA 74 WET	Analysis Date:	7/15/2009	SeqNo:	1744471		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.608	0.25	5.000	1.975	92.7	80	120				
Sample ID:	MB-56562B	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	7/13/2009	RunNo:	110828
Client ID:	PBS	Batch ID:	56562	TestNo:	WET/EPA 74 WET	Analysis Date:	7/15/2009	SeqNo:	1744472		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantization range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106111
Project: I-5 N. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID: 106111-049A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110828						
Client ID: MB109-0	Batch ID: 56562	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.501	0.25						1.566	4.21		20

Sample ID: 106111-049A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110828						
Client ID: MB109-0	Batch ID: 56562	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744484						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.213	0.25	5.000	1.566	92.9	80	120				

Sample ID: 106111-049A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110828						
Client ID: MB109-0	Batch ID: 56562	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744485						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.183	0.25	5.000	1.566	92.4	80	120	6.213	0.479		20

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106111
Project: I-5 N. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID: MB-56563A	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	RunNo: 110817
Client ID: PBS	Batch ID: 56563	TestNo: WET/EPA 74 WET		SeqNo: 1744210
Analyte	Result	PQL	SPK value	SPK Ref Val
		%REC	LowLimit	HighLimit
			RPD Ref Val	RPD Ref Val
			%RPD	RPDLimit
			Qual	Qual
Lead	ND	0.25		

Prep Date: 7/13/2009

Analysis Date: 7/15/2009

Sample ID: LCS-56563	SampType: LCS	TestCode: 7420_ST	Units: mg/L	RunNo: 110817
Client ID: LCSS	Batch ID: 56563	TestNo: WET/EPA 74 WET		SeqNo: 1744211
Analyte	Result	PQL	SPK value	SPK Ref Val
		%REC	LowLimit	HighLimit
			RPD Ref Val	RPD Ref Val
			%RPD	RPDLimit
			Qual	Qual
Lead	4.937	0.25	5.000	0
			98.7	80
				120

Prep Date: 7/13/2009

Analysis Date: 7/15/2009

Sample ID: 106199-027B-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	RunNo: 110817
Client ID: ZZZZZZ	Batch ID: 56563	TestNo: WET/EPA 74 WET		SeqNo: 1744222
Analyte	Result	PQL	SPK value	SPK Ref Val
		%REC	LowLimit	HighLimit
			RPD Ref Val	RPD Ref Val
			%RPD	RPDLimit
			Qual	Qual
Lead	11.523	0.50		
			11.40	1.06
				20

Prep Date: 7/13/2009

Analysis Date: 7/15/2009

Sample ID: 106199-027B-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	RunNo: 110817
Client ID: ZZZZZZ	Batch ID: 56563	TestNo: WET/EPA 74 WET		SeqNo: 1744223
Analyte	Result	PQL	SPK value	SPK Ref Val
		%REC	LowLimit	HighLimit
			RPD Ref Val	RPD Ref Val
			%RPD	RPDLimit
			Qual	Qual
Lead	17.631	0.50	5.000	11.40
			125	80
				120

Prep Date: 7/13/2009

Analysis Date: 7/15/2009

Sample ID: MB-56563B	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	RunNo: 110817
Client ID: PBS	Batch ID: 56563	TestNo: WET/EPA 74 WET		SeqNo: 1744224
Analyte	Result	PQL	SPK value	SPK Ref Val
		%REC	LowLimit	HighLimit
			RPD Ref Val	RPD Ref Val
			%RPD	RPDLimit
			Qual	Qual
Lead	ND	0.25		

Prep Date: 7/13/2009

Analysis Date: 7/15/2009

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 S Spike/Surrogate outside of limits due to matrix interference
 H 1 holding times for preparation or analysis exceeded
 S Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106111
Project: I-5 N. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID: 106199-045B-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110817						
Client ID: ZZZZZZ	Batch ID: 56563	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744235						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.734	0.50						13.84	0.782		20

Sample ID: 106199-045B-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110817						
Client ID: ZZZZZZ	Batch ID: 56563	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744236						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	17.670	1.2	5.000	13.84	76.6	80	120				S

Sample ID: 106199-045B-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/13/2009	RunNo: 110817						
Client ID: ZZZZZZ	Batch ID: 56563	TestNo: WET/EPA 74 WET		Analysis Date: 7/15/2009	SeqNo: 1744237						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	17.927	1.2	5.000	13.84	81.7	80	120	17.67	1.45		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- IX Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Diane Galvan

From: Lauren Vigliotti [vigliotti@geoconinc.com]
Sent: Thursday, July 09, 2009 11:10 AM
To: Diane Galvan
Subject: I-5 North Stockton

Hi Diane:

Please run the following samples for WET lead, under standard TAT. Please provide results in excel format, thanks!

WO#106074

WB20-o WB19-o WB21-o WB3-o WB11-o WB16-o WB1-o WB4-o WB7-o WB6-o

WO#106077

MB1-o MB24-o MB2-o MB34-o MB19-o

WO#106101

MB92-o MB83-o MB77-o MB78-o MB80-o MB82-o MB86-o MB79-o MB91-o MB90-o MB88-o

WO#106111

MB93-o MB100-o MB109-1 MB97-o MB105-o MB102-o MB94-o MB107-o MB114-o MB108-o MB106-o

MB103-o MB109-o MB95-o

MB98-o MB111-o MB96-o

Thanks!

Lauren Vigliotti
Senior Staff Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc

6671 Brisa Street
Livermore, CA 94550
Tel (925) 371-5900
Cell (925) 768-9874



GEOTECHNICAL ENVIRONMENTAL MATERIALS

San Diego Murrieta Burbank San Bernardino Bakersfield Sacramento Livermore Carson City Las Vegas Portland

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July 27, 2009



Lauren Vigliotti
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TEL: (925) 371-5900
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ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106111

RE: I-5 N. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 25, 2009 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



ANALYTICAL RESULTS

**LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106111
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/25/2009 9:00:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106111-001A	MB93-0	1.9	mg/L	56748	0.25	1	6/24/2009	7/23/2009
106111-013A	MB97-0	0.46	mg/L	56748	0.25	1	6/24/2009	7/23/2009
106111-022A	MB100-0	0.67	mg/L	56748	0.25	1	6/24/2009	7/23/2009
106111-043A	MB107-0	0.28	mg/L	56748	0.25	1	6/24/2009	7/23/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106111
Project:	I-5 N. Stockton, E8477-06-01	Date Received	6/25/2009 9:00:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106111-001A	MB93-0	ND	mg/L	56809	0.25	1	6/24/2009	7/24/2009
106111-013A	MB97-0	ND	mg/L	56809	0.25	1	6/24/2009	7/24/2009
106111-022A	MB100-0	0.35	mg/L	56809	0.25	1	6/24/2009	7/24/2009

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out





Advanced Technology Laboratories

CLIENT: Geokon Consultants, Inc.

Work Order: 106111

Project: I-5 N. Stockton, E8477-06-01

Date: 27-Jul-09

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID:	MB-56748A	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111092		
Client ID:	PBS	Batch ID:	56748	TestNo:	WET DI/ EPA WET			Analysis Date:	7/23/2009	SeqNo:	1749852		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.25									
Sample ID:	LCS-56748	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111092		
Client ID:	LCSS	Batch ID:	56748	TestNo:	WET DI/ EPA WET			Analysis Date:	7/23/2009	SeqNo:	1749853		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		4.730		0.25	5.000	0	94.6	80	120				
Sample ID:	106111-022A-DUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111092		
Client ID:	MB100-0	Batch ID:	56748	TestNo:	WET DI/ EPA WET			Analysis Date:	7/23/2009	SeqNo:	1749864		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.757		0.25					0.6702	12.1		20	
Sample ID:	106111-022A-MS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111092		
Client ID:	MB100-0	Batch ID:	56748	TestNo:	WET DI/ EPA WET			Analysis Date:	7/23/2009	SeqNo:	1749865		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.064		0.25	5.000	0.6702	87.9	70	130				
Sample ID:	MB-56748B	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111092		
Client ID:	PBS	Batch ID:	56748	TestNo:	WET DI/ EPA WET			Analysis Date:	7/23/2009	SeqNo:	1749866		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.25									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

CLIENT: Geocom Consultants, Inc.
Work Order: 106111
Project: I-5 N. Stockton, E8477-06-01

Sample ID: 106121-088A-DUP	SampType: DUP	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111092						
Client ID: ZZZZZZ	Batch ID: 56748	TestNo: WET DI/EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749877						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.738	0.25						1.873	7.48	20	

Sample ID: 106121-088A-MS	SampType: MS	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111092						
Client ID: ZZZZZZ	Batch ID: 56748	TestNo: WET DI/EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749878						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.376	0.25	5.000	1.873	90.1	70	130				

Sample ID: 106121-088A-MSD	SampType: MSD	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111092						
Client ID: ZZZZZZ	Batch ID: 56748	TestNo: WET DI/EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749879						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.170	0.25	5.000	1.873	85.9	70	130	6.376	3.29	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

CLIENT: Gecon Consultants, Inc.

Work Order: 106111

Project: I-5 N. Stockton, E8477-06-01

Sample ID: MB-56809B	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105						
Client ID: PBS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750221						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: MB-56783B TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105						
Client ID: PBS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750222						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: 106121-052A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105						
Client ID: ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750233						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: 106121-052A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105						
Client ID: ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750234						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.831	0.25	2.500	0	113	70	130				

Sample ID: 106121-052A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105						
Client ID: ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750235						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.946	0.25	2.500	0	118	70	130	2.831	3.99		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Diane Galvan

From: Lauren Vigliotti [vigliotti@geoconinc.com]
Sent: Monday, July 20, 2009 4:19 PM
To: Diane Galvan
Subject: I-5 North Stockton

HI Diane:
Please run the following for soluble lead under standard TAT:

WO#106074 –
WET-DI and TCLP: WB21-0 WB20-0 WB19-0

WO#106077 –
WET-DI only: MB2-0
WET-DI and TCLP: MB1-0

WO#106099 –
WET-DI only: SB4-0 SB22-0 SB20-0 SB18-2 SB17-0 SB14-0 SB13-0 SB12-0
WET-DI and TCLP: SB2-0 SB3-0 SB5-0 SB6-0 SB7-0 SB11-0 SB10-0

WO#106101 –
WET-DI only: MB79-0 MB91-0 MB90-0
WET-DI and TCLP: MB92-0 MB83-0 MB82-0 MB78-0

WO#106111 –
WET-DI only: MB107-0
WET-DI and TCLP: MB97-0 MB93-0 MB100-0

WO#106121 –
WET-DI only: SB70-0 SB60-1 SB51-0
WET-DI and TCLP: SB69-0 SB68-0 SB67-0 SB65-0 SB60-0 SB59-0 SB56-0 SB55-0 SB47-0

Thanks!

Lauren Vigliotti
Senior Staff Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc

6671 Brisa Street
Livermore, CA 94550
Tel (925) 371-5900
Cell (925) 768-9874



GEOTECHNICAL ENVIRONMENTAL MATERIALS

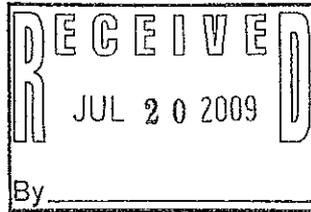
San Diego Murrieta Burbank San Bernardino Bakersfield Sacramento Livermore Carson City Las Vegas Portland

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July 10, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915



ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196
Workorder No.: 106121

RE: I-5 No. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 25, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie F. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: I-5 No. Stockton, E8477-06-01
Lab Order: 106121

CASE NARRATIVE

Analytical Comments for Method 6010

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 106121-094AMS and 106121-094AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Duplicate (DUP) is outside criteria for samples 106121-004ADUP, 106121-034ADUP, 106121-044ADUP, 106121-054ADUP, 106121-074ADUP, 106121-084ADUP and 106121-094ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for Method 7420

Dilution was necessary for samples 106121-028A, 106121-052A, 106121-082A, 106121-088A and 106121-094A, due to sample matrix.



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106121
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/25/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	PQL	DF	Date Collected	Date Analyzed	
106121-001A	SB38-0	20	56275	5.0	1	6/24/2009	7/1/2009
106121-002A	SB38-1		56275	5.0	1	6/24/2009	7/1/2009
106121-003A	SB38-2		56275	5.0	1	6/24/2009	7/1/2009
106121-004A	SB39-0	mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-005A	SB39-1	mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-006A	SB39-2	mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-007A	SB39-3	5.6 mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-008A	SB39-4	ND mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-009A	SB40-0	ND mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-010A	SB41-0	19 mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-011A	SB41-1	ND mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-012A	SB41-2	ND mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-013A	SB42-0	7.2 mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-014A	SB42-1	ND mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-015A	SB42-2	7.2 mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-016A	SB43-0	47 mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-017A	SB43-1	ND mg/Kg	56275	5.0	1	6/24/2009	7/1/2009
106121-018A	SB43-2	ND mg/Kg	56275	5.0	1	6/24/2009	7/1/2009

Qualifiers: B Analyte detected in the associated Method
 H Holding times for preparation or analysis
 S Spike/Surrogate outside of limits due to matrix
 DO Surrogate Diluted Out

E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified

PACKAGE 2 DATA



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106121
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/25/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106121-019A	SB44-0	ND	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-020A	SB44-1	ND	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-021A	SB44-2	ND	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-022A	SB45-0	15	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-023A	SB45-1	8.6	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-024A	SB45-2	5.3	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-025A	SB46-0	37	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-026A	SB46-1	9.5	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-027A	SB46-2	ND	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-028A	SB47-0	170	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-029A	SB47-1	41	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-030A	SB47-2	5.3	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-031A	SB48-0	35	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-032A	SB48-1	16	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-033A	SB48-2	21	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-034A	SB49-0	68	mg/Kg	56276	5.0	1	6/24/2009	7/1/2009
106121-035A	SB49-1	ND	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-036A	SB49-2	ND	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106121
Project:	1-5 No. Stockton, E8477-06-01	Date Received	6/25/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106121-037A	SB50-0	ND	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-038A	SB50-1	20	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-039A	SB50-2	12	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-040A	SB51-0	97	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-041A	SB51-1	ND	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-042A	SB51-2	5.3	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-043A	SB52-0	20	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-044A	SB52-1	5.9	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-045A	SB52-2	7.6	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-046A	SB53-0	170	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-047A	SB53-1	5.0	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-048A	SB53-2	ND	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-049A	SB54-0	ND	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-050A	SB54-1	ND	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-051A	SB54-2	12	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-052A	SB55-0	310	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-053A	SB55-1	8.1	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009
106121-054A	SB55-2	6.8	mg/Kg	56277	5.0	1	6/24/2009	7/1/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106121
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/25/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106121-055A	SB56-0	230	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-056A	SB56-1	32	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-057A	SB56-2	15	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-058A	SB57-0	160	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-059A	SB57-1	39	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-060A	SB57-2	35	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-061A	SB58-0	54	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-062A	SB58-1	14	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-063A	SB58-2	ND	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-064A	SB59-0	110	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-065A	SB59-1	15	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-066A	SB59-2	ND	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-067A	SB60-0	140	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-068A	SB60-1	64	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-069A	SB60-2	12	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-070A	SB61-0	110	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-071A	SB61-1	5.7	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-072A	SB61-2	ND	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106121
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/25/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106121-073A	SB62-0	52	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-074A	SB62-1	25	mg/Kg	56278	5.0	1	6/24/2009	7/1/2009
106121-075A	SB62-2	16	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-076A	SB63-0	210	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-077A	SB63-1	7.0	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-078A	SB63-2	8.9	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-079A	SB64-0	68	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-080A	SB64-1	8.4	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-081A	SB64-2	17	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-082A	SB65-0	240	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-083A	SB65-1	6.5	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-084A	SB65-2	ND	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-085A	SB66-0	72	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-086A	SB66-1	22	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-087A	SB66-2	9.3	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-088A	SB67-0	250	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-089A	SB67-1	11	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-090A	SB67-2	6.3	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106121
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/25/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106121-091A	SB68-0	120	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-092A	SB68-1	33	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-093A	SB68-2	21	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-094A	SB69-0	140	mg/Kg	56279	5.0	1	6/24/2009	7/1/2009
106121-095A	SB69-1	6.3	mg/Kg	56280	5.0	1	6/24/2009	7/1/2009
106121-096A	SB69-2	ND	mg/Kg	56280	5.0	1	6/24/2009	7/1/2009
106121-097A	SB70-0	79	mg/Kg	56280	5.0	1	6/24/2009	7/1/2009
106121-098A	SB70-1	14	mg/Kg	56280	5.0	1	6/24/2009	7/1/2009
106121-099A	SB70-2	7.4	mg/Kg	56280	5.0	1	6/24/2009	7/1/2009
106121-100A	SB71-0	35	mg/Kg	56280	5.0	1	6/24/2009	7/1/2009
106121-101A	SB71-1	ND	mg/Kg	56280	5.0	1	6/24/2009	7/1/2009
106121-102A	SB71-2	ND	mg/Kg	56280	5.0	1	6/24/2009	7/1/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106121
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/25/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106121-028A	SB47-0	12	mg/L	56428	0.50	2	6/24/2009	7/9/2009
106121-034A	SB49-0	2.9	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-040A	SB51-0	5.2	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-046A	SB53-0	3.8	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-052A	SB55-0	13	mg/L	56428	0.50	2	6/24/2009	7/9/2009
106121-055A	SB56-0	6.9	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-058A	SB57-0	0.85	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-061A	SB58-0	4.2	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-064A	SB59-0	6.3	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-067A	SB60-0	8.2	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-068A	SB60-1	5.3	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-070A	SB61-0	0.59	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-073A	SB62-0	ND	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-076A	SB63-0	1.1	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-079A	SB64-0	4.2	mg/L	56428	0.25	1	6/24/2009	7/9/2009
106121-082A	SB65-0	22	mg/L	56429	1.2	5	6/24/2009	7/9/2009
106121-085A	SB66-0	4.6	mg/L	56429	0.25	1	6/24/2009	7/9/2009
106121-088A	SB67-0	22	mg/L	56429	2.5	10	6/24/2009	7/9/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



LEAD BY ATOMIC ABSORPTION (STLC)

ANALYTICAL RESULTS

WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106121
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/25/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106121-091A	SB68-0	8.2	mg/L	56429	0.25	1	6/24/2009	7/9/2009
106121-094A	SB69-0	28	mg/L	56429	2.5	10	6/24/2009	7/9/2009
106121-097A	SB70-0	5.8	mg/L	56429	0.25	1	6/24/2009	7/9/2009

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded -ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



ANALYTICAL RESULTS

**pH
EPA 9045C**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106121
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/25/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	pH	Analyst:	DDL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106121-004A	SB33-0	7.2	pH Units	R110329			6/24/2009	6/29/2009
106121-010A	SB41-0						6/24/2009	6/29/2009
106121-020A	SB44-1	8.2	pH Units	R110329	0.10	1	6/24/2009	6/29/2009
106121-030A	SB47-2	7.6	pH Units	R110329	0.10	1	6/24/2009	6/29/2009
106121-040A	SB51-0	6.8	pH Units	R110329	0.10	1	6/24/2009	6/29/2009
106121-050A	SB54-1	7.5	pH Units	R110329	0.10	1	6/24/2009	6/29/2009
106121-060A	SB57-2	7.7	pH Units	R110329	0.10	1	6/24/2009	6/29/2009
106121-070A	SB61-0	6.8	pH Units	R110329	0.10	1	6/24/2009	6/29/2009
106121-080A	SB64-1	7.5	pH Units	R110329	0.10	1	6/24/2009	6/29/2009
106121-090A	SB67-2	7.6	pH Units	R110329	0.10	1	6/24/2009	6/29/2009
106121-100A	SB71-0	6.9	pH Units	R110329	0.10	1	6/24/2009	6/29/2009

PACKAGE 2 DATA

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	





Advanced Technology Laboratories

CLIENT: Geoson Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

Date: 10-Jul-09

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-56275A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110416
Client ID: PBS	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736499
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
				HighLimit	RPD Ref Val
				LowLimit	RPD Ref Val
				%RPD	RPDLimit
				Qual	

Lead ND 5.0

Sample ID: LCS-56275	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110416
Client ID: LCSS	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736500
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
				HighLimit	RPD Ref Val
				LowLimit	RPD Ref Val
				%RPD	RPDLimit
				Qual	

Lead 282.468 5.0 250.0 0 113 80 120

Sample ID: 106121-004ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110416
Client ID: SB39-0	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736511
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
				HighLimit	RPD Ref Val
				LowLimit	RPD Ref Val
				%RPD	RPDLimit
				Qual	

Lead 25.587 5.0 20.41 22.5 20 R

Sample ID: 106121-004AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110416
Client ID: SB39-0	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736512
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
				HighLimit	RPD Ref Val
				LowLimit	RPD Ref Val
				%RPD	RPDLimit
				Qual	

Lead 250.809 5.0 250.0 20.41 92.2 33 120

Sample ID: MB-56275B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110416
Client ID: PBS	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736513
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
				HighLimit	RPD Ref Val
				LowLimit	RPD Ref Val
				%RPD	RPDLimit
				Qual	

Lead 0.171 5.0

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106121-014ADUP	Sample Type: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110416						
Client ID: SB42-1	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736524						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.561	5.0						2.903	0	20	

Sample ID: 106121-014AMS	Sample Type: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110416						
Client ID: SB42-1	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736525						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	213.881	5.0	250.0	2.903	84.4	33	120				

Sample ID: 106121-014AMSD	Sample Type: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110416						
Client ID: SB42-1	Batch ID: 56275	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736526						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.631	5.0	250.0	2.903	88.3	33	120	213.9	4.46	20	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: MB-56276A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110421
Client ID: PBS	Batch ID: 56276	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736574
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	0.191	5.0			
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: LCS-56276	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110421
Client ID: LCSS	Batch ID: 56276	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736575
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	289.646	5.0	250.0	0.1907	116
					80
					120

Sample ID: 106121-024ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110421
Client ID: SB45-2	Batch ID: 56276	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736586
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	5.831	5.0			
					5.329
					9.00
					20

Sample ID: 106121-024AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110421
Client ID: SB45-2	Batch ID: 56276	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736587
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	230.502	5.0	250.0	5.329	90.1
					33
					120

Sample ID: MB-56276B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110421
Client ID: PBS	Batch ID: 56276	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736588
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	5.0			

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106121-034ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110421							
Client ID: SB49-0	Batch ID: 56276	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736599							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Lead	54.468	5.0						67.93		22.0	20	R

Sample ID: 106121-034AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110421						
Client ID: SB49-0	Batch ID: 56276	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736600						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	258.861	5.0	250.0	67.93	76.4	33	120				

Sample ID: 106121-034MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110421						
Client ID: SB49-0	Batch ID: 56276	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736601						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	265.969	5.0	250.0	67.93	79.2	33	120	258.9		2.71	20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.

Work Order: 106121

Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID	MB-56277A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110432					
Client ID	PBS	Batch ID: 56277	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736837					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									
Sample ID	LCS-56277	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009 <td>RunNo: 110432</td>	RunNo: 110432					
Client ID	LCSS	Batch ID: 56277	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009 <td>SeqNo: 1736838</td>	SeqNo: 1736838					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	%RPD	RPDLimit	Qual
Lead	260.722	5.0	250.0	0	104	80	120				
Sample ID	106121-044ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009 <td>RunNo: 110432</td>	RunNo: 110432					
Client ID	SB52-1	Batch ID: 56277	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009 <td>SeqNo: 1736849</td>	SeqNo: 1736849					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	%RPD	RPDLimit	Qual
Lead	8.711	5.0				5.904	38.4	20			R
Sample ID	106121-044AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009 <td>RunNo: 110432</td>	RunNo: 110432					
Client ID	SB52-1	Batch ID: 56277	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009 <td>SeqNo: 1736850</td>	SeqNo: 1736850					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	%RPD	RPDLimit	Qual
Lead	218.630	5.0	250.0	5.904	85.1	33	120				
Sample ID	MB-56277B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009 <td>RunNo: 110432</td>	RunNo: 110432					
Client ID	PBS	Batch ID: 56277	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009 <td>SeqNo: 1736851</td>	SeqNo: 1736851					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on mw values
- I Holding times for preparation or analysis exceeded
- S Spikes/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106121-054ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110432						
Client ID: SB55-2	Batch ID: 56277	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.030	5.0	250.0	6.814	81.2	33	120	6.814	30.1	20	R

Sample ID: 106121-054AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110432						
Client ID: SB55-2	Batch ID: 56277	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	209.839	5.0	250.0	6.814	81.2	33	120	6.814	30.1	20	R

Sample ID: 106121-054MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110432						
Client ID: SB55-2	Batch ID: 56277	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	211.363	5.0	250.0	6.814	81.8	33	120	209.8	0.724	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

CLIENT: Gecon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

Sample ID: MB-56278A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110433						
Client ID: PBS	Batch ID: 56278	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736865						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-56278	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110433						
Client ID: LCSS	Batch ID: 56278	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736866						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	254.630	5.0	250.0	0	102	80	120				

Sample ID: 106121-064ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110433						
Client ID: SB59-0	Batch ID: 56278	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736877						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	98.251	5.0						110.1	11.4	20	

Sample ID: 106121-064AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110433						
Client ID: SB59-0	Batch ID: 56278	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736878						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	294.791	5.0	250.0	110.1	73.9	33	120				

Sample ID: MB-56278B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110433						
Client ID: PBS	Batch ID: 56278	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736879						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spikes/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

CLIENT: Geoson Consultants, Inc.
Work Order: 106121
Project: J-5 No. Stockton, E8477-06-01

Sample ID: 106121-074ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110433						
Client ID: SB62-1	Batch ID: 56278	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736890						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	14.226	5.0						24.60	53.4	20	R

Sample ID: 106121-074AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110433						
Client ID: SB62-1	Batch ID: 56278	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736891						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	209.513	5.0	250.0	24.60	74.0	33	120				

Sample ID: 106121-074AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110433						
Client ID: SB62-1	Batch ID: 56278	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1736892						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	210.623	5.0	250.0	24.60	74.4	33	120	209.5	0.529	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: MB-56279A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110441						
Client ID: PBS	Batch ID: 56279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737144						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-56279	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110441						
Client ID: LCSS	Batch ID: 56279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737145						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	260.134	5.0	250.0	0	104	80	120				

Sample ID: 106121-084ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110441						
Client ID: SB65-2	Batch ID: 56279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737156						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.753	5.0						4.776	34.3	20	R

Sample ID: 106121-084AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110441						
Client ID: SB65-2	Batch ID: 56279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737157						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	211.563	5.0	250.0	4.776	82.7	33	120				

Sample ID: MB-56279B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110441						
Client ID: PBS	Batch ID: 56279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737158						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spikes/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: 106121-094ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110441						
Client ID: SB69-0	Batch ID: 56279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737169						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	298.591	5.0						141.5	68.4	20	R

Sample ID: 106121-094AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110441						
Client ID: SB69-0	Batch ID: 56279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737170						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	499.631	5.0	250.0	141.5	143	33	120				S

Sample ID: 106121-094AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110441						
Client ID: SB69-0	Batch ID: 56279	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737171						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	539.310	5.0	250.0	141.5	159	33	120	499.6	7.64	20	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spikes/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 6010_SPB

Sample ID: MB-56280A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110440						
Client ID: PBS	Batch ID: 56280	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737131						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-56280	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110440						
Client ID: LCSS	Batch ID: 56280	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737132						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	250.078	5.0	250.0	0	100	80	120				

Sample ID: 106121-102ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110440						
Client ID: SB71-2	Batch ID: 56280	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737141						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.907	5.0						3.151	0	20	

Sample ID: 106121-102AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110440						
Client ID: SB71-2	Batch ID: 56280	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	203.394	5.0	250.0	3.151	80.1	33	120				

Sample ID: 106121-102AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 6/30/2009	RunNo: 110440						
Client ID: SB71-2	Batch ID: 56280	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/1/2009	SeqNo: 1737143						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	204.348	5.0	250.0	3.151	80.5	33	120	203.4	0.468	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID: MB-56428A	SampleType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110635
Client ID: PBS	Batch ID: 56428	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741323
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: LCS-56428	SampleType: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110635
Client ID: LCSS	Batch ID: 56428	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741324
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	4.804	0.25	5.000	0	96.1
				80	120
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: 106121-052A-DUP	SampleType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110635
Client ID: SB55-0	Batch ID: 56428	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741330
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	12.641	0.50			12.64
				80	120
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: 106121-052A-MS	SampleType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110635
Client ID: SB55-0	Batch ID: 56428	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741332
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	16.741	0.50	5.000	12.64	82.0
				80	120
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: MB-56428B	SampleType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110635
Client ID: PBS	Batch ID: 56428	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741333
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: MB-56428B	SampleType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110635
Client ID: PBS	Batch ID: 56428	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741333
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID: 106121-079A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110635						
Client ID: SB664-0	Batch ID: 56428	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741344						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.212	0.25						4.185	0.633		20

Sample ID: 106121-079A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110635						
Client ID: SB664-0	Batch ID: 56428	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741345						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.329	0.50	5.000	4.185	103	80	120				

Sample ID: 106121-079A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110635						
Client ID: SB664-0	Batch ID: 56428	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741346						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.482	0.50	5.000	4.185	106	80	120	9.329	1.63		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geokon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID: MB-56429A	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110637
Client ID: PBS	Batch ID: 56429	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741349
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	0.25			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: LCS-56429	SampType: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110637
Client ID: LCSS	Batch ID: 56429	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741350
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	4.632	0.25	5.000	0	92.6
				80	120
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: 106089-020A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110637
Client ID: ZZZZZZ	Batch ID: 56429	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741360
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	1.484	0.25			
				1.443	2.79
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: 106089-020A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110637
Client ID: ZZZZZZ	Batch ID: 56429	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741361
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	6.271	0.25	5.000	1.443	96.6
				80	120
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: MB-56429B	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110637
Client ID: PBS	Batch ID: 56429	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741362
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	0.25			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocoon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_ST

Sample ID: 106121-097A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110637						
Client ID: SB70-0	Batch ID: 56429	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741389						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.814	0.25						5.807	0.126		20

Sample ID: 106121-097A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110637						
Client ID: SB70-0	Batch ID: 56429	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741370						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.526	0.50	5.000	5.807	94.4	80	120				

Sample ID: 106121-097A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/7/2009	RunNo: 110637						
Client ID: SB70-0	Batch ID: 56429	TestNo: WET/EPA 74 WET		Analysis Date: 7/9/2009	SeqNo: 1741371						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.519	0.50	5.000	5.807	94.2	80	120	10.53	0.0623		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spikes/Surrogate outside of limits due to matrix interference



CLIENT: Gecon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: 106111-002ADUP	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 110328					
Client ID: ZZZZZZ	Batch ID: R110328	TestNo: EPA 9045C		Analysis Date: 6/29/2009	SeqNo: 1734242					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.270	0.10					7.220	0.690		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on mw values
- I Holding times for preparation or analysis exceeded
- S Spikes/Surrogate outside of limits due to matrix interference



CLIENT: Geoson Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

ANALYTICAL QC SUMMARY REPORT
TestCode: 9045_S

Sample ID: 106121-030ADUP	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 110329					
Client ID: SB47-2	Batch ID: R110329	TestNo: EPA 9045C		Analysis Date: 6/29/2009	SeqNo: 1734253					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
pH	7.600	0.10			7.550		0.660		20	

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spikes/Surrogate outside of limits due to matrix interference

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technologies Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Client: GECON
 Attn: L. Y. HUNTT
 Project Name: I-5 No. Stackton
 Relinquished by: (Signature and Printed Name) A. ATZ Date: 6/24/2009 Time: 1330
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/24/2009 Time: 1330
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/24/2009 Time: 1330

Method of Transport: Client ATL CA OverN FEDEX Other: UPS
 Sample Condition Upon Receipt: 1. CHILLED 2. HEADSPACE (VOA) 3. CONTAINER INTACT 4. SEALED 5. # OF SPLS MATCH COC 6. PRESERVED

P.O.#: _____ Date: 6/26/09
 Logged By: _____

Address: 6671 BRIDA ST State: CA Zip Code: 94550
 City: WILKINSON State: CA Zip: _____
 Sampler: D. WATTS
 Received by: (Signature and Printed Name) [Signature] Date: 6/24/2009 Time: 1330
 Received by: (Signature and Printed Name) [Signature] Date: 6/25/09 Time: 9:35
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

TEL: (925) 371-5900 FAX: (925) 371-5915
 Special Instructions/Comments: RETURN ALL GECON COOLERS
DO NOT COMPOSITE SAMPLE SETS
RUN WEIR ON SAMPLES ≥ 50ppm + < 1000 ppm
10% PH (LAB-Room)

LAB USE ONLY:	Sample Description	Sample I.D. / Location	Date	Time
106/21 - 017	39-	38-01, 2	6/24/09	1330
45, 6	40-			
7, 8, 9	41-			
10, 11, 12	42-			
13, 14, 15	43-			
16, 17, 18	44-			
19, 20, 21	45-			
22, 23, 24	46-			
25, 26, 27	47-			
28, 29, 30				

Bill To: _____ Attn: _____
 Co: SEE "CLIENT"
 Address: _____ City: _____ State: _____ Zip: _____
 Circle or Add Analysis(es) Requested: _____

Matrix: _____
 Container(s): _____ Type: _____
 TAT: E 3

Q/A/QC: RTIME CT
 SWRCB Logcode _____ OTHER _____

REMARKS: _____
 PRESERVATION: _____
 PRESERVATIVES: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 O=NaOH T=Na₂S₂O₃
 Z=Zn(AC)₂ P=Plastic M=Metal

LAB USE ONLY:	Sample Description	Sample I.D. / Location	Date	Time
106/21 - 017	39-	38-01, 2	6/24/09	1330
45, 6	40-			
7, 8, 9	41-			
10, 11, 12	42-			
13, 14, 15	43-			
16, 17, 18	44-			
19, 20, 21	45-			
22, 23, 24	46-			
25, 26, 27	47-			
28, 29, 30				

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technologies Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Sample Condition Upon Receipt
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Method of Transport
 Client
 ATL
 CA OverN
 FEDEX
 Other: _____

Logged By: _____ Date: _____

Address: _____ City _____ State _____ Zip Code _____

Client: _____ Project #: _____
 Attn: SEE FILE

Relinquished by: (Signature and Printed Name) _____ Date: 6/24/2009 Time: 1330
 Relinquished by: (Signature and Printed Name) _____ Date: 6/24/2009 Time: 935
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Received by: (Signature and Printed Name) WLF Date: 6/24/2009 Time: 1330
 Received by: (Signature and Printed Name) Ray Date: 6/25/09 Time: 935
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments: _____

Bill To: _____
 Alt#: _____
 Co: _____
 Address: _____
 City _____ State _____ Zip _____

Send Report To:
 Alt#: _____
 Co: _____
 Address: _____
 City _____ State _____ Zip _____

Print Name _____ Date _____
 Signature _____

Sample/Records - Archival & Disposal:
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Batch #:	Lab No.	Sample I.D. / Location	Date	Time	Sample Description	SPECIFY APPROPRIATE MATRIX		CONTAINER(S)	TAT #	Type	PRESERVATION	Q / Q C
							WATER	GROUND WATER					
			5842 - 01, 2	6/24/09	VAR					3			
			49 -										
			50 -										
			51 -										
			52 -										
			53 -										
			54 -										
			55 -										
			56 -										
			57 -										
			58 -										

Preservatives:
 H=Hcl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

Container Types: T=Tube V=VOA L=Liter
 TAT: A= Overnight ≤ 24 hr B= Emergency Next workday
 C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
 P=Plastic M=Metal G=Glass B= Tedlar J=Jar P=Pin P=Liner

* TAT starts 8 a.m. following day if samples received after 3 p.m.

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Sample Condition Upon Receipt:
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Method of Transport:
 Client
 ATL
 CA OverN
 FEDEX
 Other: _____

1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: See log Project #: _____
 Attn: _____
 Address: _____ City: _____ State: _____ Zip Code: _____
 Date: _____ Time: _____
 Date: _____ Time: _____
 Date: _____ Time: _____

Received by: (Signature and Printed Name) WAT Time: 1330
 Received by: (Signature and Printed Name) MS Time: 1730
 Received by: (Signature and Printed Name) Mary Time: 9:35

Special Instructions/Comments: _____

Bill To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Send Report To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Sample/Records - Archival & Disposal!
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
 Storage Fees (applies when storage is requested):
 • Sample: \$2.00 / sample / mo (after 45 days)
 • Records: \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Sample Description	Sample I.D. / Location	Date	Time
106121-61,64,65	SO58-0112	64-05,66	6/24/09	VAD
64,65,67		61-		
67,68,69		62-		
70, 71, 72		63-		
73, 74, 75		64-		
76, 77, 78		65-		
79, 80, 81		66-		
82, 83, 84		67-		
85, 86, 87		68-		
88, 89, 90		69-		

Circle or Add Analysis(es) Requested:
 801A (Pesticides)
 8270C (Volatiles)
 8010B (Total Metal)
 8015B (GRQ) / 8020 (BTEX)
 8015B (DRO)
 8021 (BTEX)
 TITLE 22 / CAM 17 (6010 / 700)

Container Types: T=Tube V=VOA L=Liter
 TAT: A= Overnight (524 hr) B= Next workday
 Critical: C= 2 Workdays
 Urgent: D= 3 Workdays
 Routine: E= 7 Workdays
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(AC) O=NaOH T=Na₂SO₃

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

P.O.#: _____ Date: _____
 Logged By: _____

Method of Transport: Client ATL CA OverN FEDEX Other: _____

Sample Condition Upon Receipt: 1. CHILLED 4. SEALED Y N
 2. HEADSPACE (VOA) 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT 6. PRESERVED Y N

Client: SEE pg 1 Project #: _____
 Attn: _____ City: _____ State: _____ Zip Code: _____
 Project Name: _____ Sampler: _____
 Relinquished by: (Signature and Printed Name) _____ Date: 6/24/09 Time: 1330
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr/Submitter: SEE pg 1 Date: _____
 Sent Report To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
 Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:		Sample Description	
Batch #:	Lab No.	Sample I.D. / Location	Date Time
106171	91, 92, 93	5868 - 0, 1, 2	6/24/09 VAN
	94, 95, 96	69 -	↓
	97, 98, 99	70 -	↓
	100, 101, 102	71 -	↓

Special Instructions/Comments: _____
 Bill To: _____
 Attn: _____
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

SPECIFY APPROPRIATE MATRIX		CONTAINERS		Q/A/QC	
WATER	GROUND WATER	TAT #	Type	RTN	CT
<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	QIP	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>

Preservatives:
 H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday
 Container Types: T=Tube V=VOA L=Liter
 Urgent D= 3 Workdays
 Critical C= 2 Workdays
 Routine E= 7 Workdays
 P=Plastic M=Metal

• TAT starts 8 a.m. following day if samples received after 3 p.m.

July 27, 2009



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106121

RE: I-5 No. Stockton, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on June 25, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



ANALYTICAL RESULTS

**LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106121
Project:	I-5 No. Stockton, E8477-06-01	Date Received	6/25/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106121-028A	SB47-0	ND	mg/L	56748	0.25	1	6/24/2009	7/23/2009
106121-040A	SB51-0	ND	mg/L	56748	0.25	1	6/24/2009	7/23/2009
106121-052A	SB55-0	0.33	mg/L	56748	0.25	1	6/24/2009	7/23/2009
106121-055A	SB56-0	0.41	mg/L	56748	0.25	1	6/24/2009	7/23/2009
106121-064A	SB59-0	ND	mg/L	56748	0.25	1	6/24/2009	7/23/2009
106121-067A	SB60-0	0.51	mg/L	56748	0.25	1	6/24/2009	7/23/2009
106121-068A	SB60-1	0.31	mg/L	56748	0.25	1	6/24/2009	7/23/2009
106121-082A	SB65-0	1.9	mg/L	56748	0.25	1	6/24/2009	7/23/2009
106121-088A	SB67-0	1.9	mg/L	56748	0.25	1	6/24/2009	7/23/2009
106121-091A	SB68-0	0.46	mg/L	56749	0.25	1	6/24/2009	7/23/2009
106121-094A	SB69-0	1.8	mg/L	56749	0.25	1	6/24/2009	7/23/2009
106121-097A	SB70-0	0.51	mg/L	56749	0.25	1	6/24/2009	7/23/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



LEAD BY ATOMIC ABSORPTION (TCLP)

ANALYTICAL RESULTS

EPA 1311/7420

CLIENT:	Geocon Consultants, Inc.	Lab Order:	106121
Project:	1-5 No. Stockton, E8477-06-01	Date Received	6/25/2009 9:35:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
106121-028A	SB47-0	ND	mg/L	56809	0.25	1	6/24/2009	7/24/2009
106121-052A	SB55-0	ND	mg/L	56809	0.25	1	6/24/2009	7/24/2009
106121-055A	SB56-0	ND	mg/L	56807	0.25	1	6/24/2009	7/24/2009
106121-064A	SB59-0	ND	mg/L	56807	0.25	1	6/24/2009	7/24/2009
106121-067A	SB60-0	ND	mg/L	56807	0.25	1	6/24/2009	7/24/2009
106121-082A	SB65-0	ND	mg/L	56807	0.25	1	6/24/2009	7/24/2009
106121-088A	SB67-0	ND	mg/L	56807	0.25	1	6/24/2009	7/24/2009
106121-091A	SB68-0	ND	mg/L	56807	0.25	1	6/24/2009	7/24/2009
106121-094A	SB69-0	ND	mg/L	56807	0.25	1	6/24/2009	7/24/2009

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out





Advanced Technology Laboratories

CLIENT: Gecon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, ES477-06-01

Date: 27-Jul-09

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID:	MB-56748A	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	7/21/2009	RunNo:	111092
Client ID:	PBS	Batch ID:	56748	TestNo:	WET DI/ EPA WET	Analysis Date:	7/23/2009	SeqNo:	1749852	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									
Sample ID:	LCS-56748	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L <td>Prep Date:</td> <td>7/21/2009 <td>RunNo:</td> <td>111092</td> </td>	Prep Date:	7/21/2009 <td>RunNo:</td> <td>111092</td>	RunNo:	111092
Client ID:	LCSS	Batch ID:	56748	TestNo:	WET DI/ EPA WET <td>Analysis Date:</td> <td>7/23/2009 <td>SeqNo:</td> <td>1749853 <td>%RPD</td> <td>RPDLimit</td> </td></td>	Analysis Date:	7/23/2009 <td>SeqNo:</td> <td>1749853 <td>%RPD</td> <td>RPDLimit</td> </td>	SeqNo:	1749853 <td>%RPD</td> <td>RPDLimit</td>	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.730	0.25	5.000	0	94.6	80	120				
Sample ID:	106111-022A-DUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L <td>Prep Date:</td> <td>7/21/2009 <td>RunNo:</td> <td>111092</td> </td>	Prep Date:	7/21/2009 <td>RunNo:</td> <td>111092</td>	RunNo:	111092
Client ID:	ZZZZZZ	Batch ID:	56748	TestNo:	WET DI/ EPA WET <td>Analysis Date:</td> <td>7/23/2009 <td>SeqNo:</td> <td>1749864 <td>%RPD</td> <td>RPDLimit</td> </td></td>	Analysis Date:	7/23/2009 <td>SeqNo:</td> <td>1749864 <td>%RPD</td> <td>RPDLimit</td> </td>	SeqNo:	1749864 <td>%RPD</td> <td>RPDLimit</td>	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.757	0.25						0.6702	12.1	20	
Sample ID:	106111-022A-MS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L <td>Prep Date:</td> <td>7/21/2009 <td>RunNo:</td> <td>111092</td> </td>	Prep Date:	7/21/2009 <td>RunNo:</td> <td>111092</td>	RunNo:	111092
Client ID:	ZZZZZZ	Batch ID:	56748	TestNo:	WET DI/ EPA WET <td>Analysis Date:</td> <td>7/23/2009 <td>SeqNo:</td> <td>1749865 <td>%RPD</td> <td>RPDLimit</td> </td></td>	Analysis Date:	7/23/2009 <td>SeqNo:</td> <td>1749865 <td>%RPD</td> <td>RPDLimit</td> </td>	SeqNo:	1749865 <td>%RPD</td> <td>RPDLimit</td>	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.064	0.25	5.000	0.6702	87.9	70	130				
Sample ID:	MB-56748B	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L <td>Prep Date:</td> <td>7/21/2009 <td>RunNo:</td> <td>111092</td> </td>	Prep Date:	7/21/2009 <td>RunNo:</td> <td>111092</td>	RunNo:	111092
Client ID:	PBS	Batch ID:	56748	TestNo:	WET DI/ EPA WET <td>Analysis Date:</td> <td>7/23/2009 <td>SeqNo:</td> <td>1749866 <td>%RPD</td> <td>RPDLimit</td> </td></td>	Analysis Date:	7/23/2009 <td>SeqNo:</td> <td>1749866 <td>%RPD</td> <td>RPDLimit</td> </td>	SeqNo:	1749866 <td>%RPD</td> <td>RPDLimit</td>	%RPD	RPDLimit
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_DI

Sample ID: 106121-088A-DUP	SampType: DUP	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111092						
Client ID: SB67-0	Batch ID: 56748	TestNo: WET DI/EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749877						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.738	0.25						1.873	7.48		20

Sample ID: 106121-088A-MS	SampType: MS	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111092						
Client ID: SB67-0	Batch ID: 56748	TestNo: WET DI/EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749878						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.376	0.25	5.000	1.873	90.1	70	130				

Sample ID: 106121-088A-MSD	SampType: MSD	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111092						
Client ID: SB67-0	Batch ID: 56748	TestNo: WET DI/EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749879						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.170	0.25	5.000	1.873	85.9	70	130	6.376	3.29		20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- I Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Gecon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_DI

Sample ID: MB-56749A	SampType: MBLK	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111093						
Client ID: PBS	Batch ID: 56749	TestNo: WET DI/ EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749881						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	ND	0.25									

Sample ID: LCS-56749	SampType: LCS	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111093						
Client ID: LCSS	Batch ID: 56749	TestNo: WET DI/ EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749882						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.725	0.25	5.000	0	94.5	80	120				

Sample ID: 106121-097A-DUP	SampType: DUP	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111093						
Client ID: SB70-0	Batch ID: 56749	TestNo: WET DI/ EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749886						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.425	0.25						0.5095	18.0	20	

Sample ID: 106121-097A-MS	SampType: MS	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111093						
Client ID: SB70-0	Batch ID: 56749	TestNo: WET DI/ EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749887						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.974	0.25	5.000	0.5095	109	70	130				

Sample ID: 106121-097A-MSD	SampType: MSD	TestCode: 7420_DI	Units: mg/L	Prep Date: 7/21/2009	RunNo: 111093						
Client ID: SB70-0	Batch ID: 56749	TestNo: WET DI/ EPA WET		Analysis Date: 7/23/2009	SeqNo: 1749888						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.028	0.25	5.000	0.5095	110	70	130	5.974	0.890	20	

Qualifiers:
 B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out
 E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values
 I1 Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoscon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_TC

Sample ID: MB-56807A	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111106
Client ID: PBS	Batch ID: 56807	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750258
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
					RPDLimit
					Qual

Sample ID: MB-56784A TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111106
Client ID: PBS	Batch ID: 56807	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750259
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
					RPDLimit
					Qual

Sample ID: LCS-56807	SampType: LCS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111106
Client ID: LCSS	Batch ID: 56807	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750260
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	1.061	0.25	1.000	0	106
				80	120
				LowLimit	HighLimit
				RPD Ref Val	%RPD
					RPDLimit
					Qual

Sample ID: 106121-094A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111106
Client ID: SB69-0	Batch ID: 56807	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750268
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
					RPDLimit
					Qual

Sample ID: 106121-094A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111106
Client ID: SB69-0	Batch ID: 56807	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750269
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	2.807	0.25	2.500	0	112
				70	130
				LowLimit	HighLimit
				RPD Ref Val	%RPD
					RPDLimit
					Qual

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_TC

Sample ID: 106121-094A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111106						
Client ID: SB69-0	Batch ID: 56807	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 7/24/2009	SeqNo: 1750270						
Analyte	Result	PQL	SPK value	SPK Ref.Val	%REC	LowLimit	HighLimit	RPD Ref.Val	%RPD	RPDLimit	Qual
Lead	2.971	0.25	2.500	0	119	70	130	2.807	5.69	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spikes/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



ANALYTICAL QC SUMMARY REPORT

CLIENT: Goocon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

TestCode: 7420_TC

Sample ID: MB-56809A	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: PBS	Batch ID: 56809	TestNo: EPA 1311/74	EPA3010A	Analysis Date: 7/24/2009	SeqNo: 1750207
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: MB-56783A	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: PBS	Batch ID: 56809	TestNo: EPA 1311/74	EPA3010A	Analysis Date: 7/24/2009	SeqNo: 1750208
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: LCS-56809	SampType: LCS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: LCSS	Batch ID: 56809	TestNo: EPA 1311/74	EPA3010A	Analysis Date: 7/24/2009	SeqNo: 1750209
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	1.186	0.25	1.000	0	119
				80	120
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: 106099-028A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74	EPA3010A	Analysis Date: 7/24/2009	SeqNo: 1750218
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	0.378	0.25			
				0.4193	10.2
				20	
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: 106099-028A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/23/2009	RunNo: 111105
Client ID: ZZZZZZ	Batch ID: 56809	TestNo: EPA 1311/74	EPA3010A	Analysis Date: 7/24/2009	SeqNo: 1750220
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	2.719	0.25	2.500	0.4193	92.0
				70	130
				RPD Ref Val	%RPD
				RPDLimit	Qual

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- II Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

CLIENT: Geokon Consultants, Inc.
Work Order: 106121
Project: I-5 No. Stockton, E8477-06-01

Sample ID: MB-56809B	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	RunNo: 111105
Client ID: PBS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		SeqNo: 1750221
Analyte	Result	PQL	SPK value	SPK Ref Val
	ND	0.25		
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPD Limit	Qual

Sample ID: MB-56783B TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	RunNo: 111105
Client ID: PBS	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		SeqNo: 1750222
Analyte	Result	PQL	SPK value	SPK Ref Val
	ND	0.25		
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPD Limit	Qual

Sample ID: 106121-052A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	RunNo: 111105
Client ID: SB55-0	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		SeqNo: 1750233
Analyte	Result	PQL	SPK value	SPK Ref Val
	ND	0.25		
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPD Limit	Qual

Sample ID: 106121-052A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	RunNo: 111105
Client ID: SB55-0	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		SeqNo: 1750234
Analyte	Result	PQL	SPK value	SPK Ref Val
	2.831	0.25	2.500	0
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPD Limit	Qual

Sample ID: 106121-052A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	RunNo: 111105
Client ID: SB55-0	Batch ID: 56809	TestNo: EPA 1311/74 EPA3010A		SeqNo: 1750235
Analyte	Result	PQL	SPK value	SPK Ref Val
	2.946	0.25	2.500	0
		%REC	LowLimit	HighLimit
			RPD Ref Val	%RPD
			RPD Limit	Qual

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Diane Galvan

From: Lauren Vigliotti [vigliotti@geoconinc.com]
Sent: Monday, July 20, 2009 4:19 PM
To: Diane Galvan
Subject: I-5 North Stockton

Hi Diane:
Please run the following for soluble lead under standard TAT:

WO#106074 –
WET-DI and TCLP: WB21-o WB20-o WB19-o

WO#106077 –
WET-DI only: MB2-o
WET-DI and TCLP: MB1-o

WO#106099 –
WET-DI only: SB4-o SB22-o SB20-o SB18-2 SB17-o SB14-o SB13-o SB12-o
WET-DI and TCLP: SB2-o SB3-o SB5-o SB6-o SB7-o SB11-o SB10-o

WO#106101 –
WET-DI only: MB79-o MB91-o MB90-o
WET-DI and TCLP: MB92-o MB83-o MB82-o MB78-o

WO#106111 –
WET-DI only: MB107-o
WET-DI and TCLP: MB97-o MB93-o MB100-o

WO#106121 –
WET-DI only: SB70-o SB60-1 SB51-o
WET-DI and TCLP: SB69-o SB68-o SB67-o SB65-o SB60-o SB59-o SB56-o SB55-o SB47-o

Thanks!

Lauren Vigliotti
Senior Staff Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc

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Livermore, CA 94550
Tel (925) 371-5900
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GEOTECHNICAL ENVIRONMENTAL MATERIALS

San Diego Murrieta Burbank San Bernardino Bakersfield Sacramento Livermore Carson City Las Vegas Portland

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May 07, 2010



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 768-9874
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 111531

RE: I-5 N. Stockton R&M, E8477-06-01

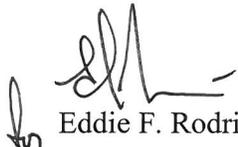
Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on April 30, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,


Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: I-5 N. Stockton R&M, E8477-06-01
Lab Order: 111531

CASE NARRATIVE

Analytical Comments for Method 6010

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for sample 111531-040AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Duplicate (DUP) is outside criteria for samples 111531-010ADUP, 111531-040ADUP and 111531-050ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111531
Project:	I-5 N. Stockton R&M, E8477-06-01	Date Received	4/30/2010 9:39:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111531-001A	SB72-0	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-002A	SB72-1	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-003A	SB72-2	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-004A	SB73-0	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-005A	SB73-1	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-006A	SB73-2	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-007A	SB74-0	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-008A	SB74-1	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-009A	SB74-2	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-010A	SB75-0	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-011A	SB75-1	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-012A	SB75-2	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-013A	SB76-0	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-014A	SB76-1	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-015A	SB76-2	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-016A	SB77-0	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-017A	SB77-1	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-018A	SB77-2	ND	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111531
Project:	I-5 N. Stockton R&M, E8477-06-01	Date Received	4/30/2010 9:39:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111531-019A	SB78-0	99	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-020A	SB78-1	6.6	mg/Kg	63874	5.0	1	4/28/2010	5/6/2010
111531-021A	SB78-2	ND	mg/Kg	63875	5.0	1	4/28/2010	5/6/2010
111531-022A	SB79-0	45	mg/Kg	63875	5.0	1	4/28/2010	5/6/2010
111531-023A	SB79-1	170	mg/Kg	63875	5.0	1	4/28/2010	5/6/2010
111531-024A	SB79-2	9.2	mg/Kg	63875	5.0	1	4/28/2010	5/6/2010
111531-025A	SB80-0	72	mg/Kg	63875	5.0	1	4/28/2010	5/6/2010
111531-026A	SB80-1	7.6	mg/Kg	63875	5.0	1	4/28/2010	5/6/2010
111531-027A	SB80-2	10	mg/Kg	63875	5.0	1	4/28/2010	5/6/2010
111531-028A	SB81-0	76	mg/Kg	63875	5.0	1	4/28/2010	5/6/2010
111531-029A	SB81-1	7.9	mg/Kg	63875	5.0	1	4/28/2010	5/6/2010
111531-030A	SB81-2	6.2	mg/Kg	63875	5.0	1	4/28/2010	5/6/2010
111531-031A	SB82-0	140	mg/Kg	63875	5.0	1	4/29/2010	5/6/2010
111531-032A	SB82-1	6.2	mg/Kg	63875	5.0	1	4/29/2010	5/6/2010
111531-033A	SB82-2	6.8	mg/Kg	63875	5.0	1	4/29/2010	5/6/2010
111531-034A	SB83-0	94	mg/Kg	63875	5.0	1	4/29/2010	5/6/2010
111531-035A	SB83-1	7.8	mg/Kg	63875	5.0	1	4/29/2010	5/6/2010
111531-036A	SB83-2	8.0	mg/Kg	63875	5.0	1	4/29/2010	5/6/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111531
Project:	I-5 N. Stockton R&M, E8477-06-01	Date Received	4/30/2010 9:39:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111531-037A	SB84-0	150	mg/Kg	63875	5.0	1	4/29/2010	5/6/2010
111531-038A	SB84-1	10	mg/Kg	63875	5.0	1	4/29/2010	5/6/2010
111531-039A	SB84-2	ND	mg/Kg	63875	5.0	1	4/29/2010	5/6/2010
111531-040A	SB85-0	460	mg/Kg	63875	5.0	1	4/29/2010	5/6/2010
111531-041A	SB85-1	ND	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-042A	SB85-2	ND	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-043A	SB86-0	42	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-044A	SB86-1	240	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-045A	SB86-2	15	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-046A	SB87-0	ND	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-047A	SB87-1	ND	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-048A	SB87-2	5.5	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-049A	SB88-0	6.9	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-050A	SB88-1	20	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-051A	SB88-2	ND	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-052A	SB89-0	ND	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-053A	SB89-1	ND	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-054A	SB89-2	ND	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111531
Project:	I-5 N. Stockton R&M, E8477-06-01	Date Received	4/30/2010 9:39:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111531-055A	SB90-0	ND	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-056A	SB90-1	ND	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-057A	SB90-2	ND	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-058A	SB91-0	6.3	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-059A	SB91-1	5.9	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010
111531-060A	SB91-2	ND	mg/Kg	63876	5.0	1	4/29/2010	5/6/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



ANALYTICAL RESULTS

**pH
EPA 9045C**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111531
Project:	I-5 N. Stockton R&M, E8477-06-01	Date Received	4/30/2010 9:39:00 AM
Project No:		Matrix:	Soil
Analyte:	pH	Analyst:	CBB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111531-001A	SB72-0	7.9	pH Units	R120874	0.10	1	4/28/2010	5/4/2010
111531-012A	SB75-2	8.4	pH Units	R120874	0.10	1	4/28/2010	5/4/2010
111531-023A	SB79-1	6.7	pH Units	R120874	0.10	1	4/28/2010	5/4/2010
111531-034A	SB83-0	6.3	pH Units	R120874	0.10	1	4/29/2010	5/4/2010
111531-045A	SB86-2	8.1	pH Units	R120874	0.10	1	4/29/2010	5/4/2010
111531-056A	SB90-1	8.4	pH Units	R120874	0.10	1	4/29/2010	5/4/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



CLIENT: Geocon Consultants, Inc.
Work Order: 111531
Project: I-5 N. Stockton R&M, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-63874A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120931
Client ID: PBS	Batch ID: 63874	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930816
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead ND 5.0

Sample ID: LCS-63874	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120931
Client ID: LCSS	Batch ID: 63874	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930817
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 268.655 5.0 250.0 0 107 80 120

Sample ID: 111531-010A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120931
Client ID: SB75-0	Batch ID: 63874	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930828
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 8.116 5.0 4.424 58.9 20 R

Sample ID: 111531-010A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120931
Client ID: SB75-0	Batch ID: 63874	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930829
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

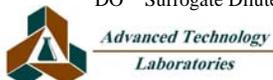
Lead 214.561 5.0 250.0 4.424 84.1 34 126

Sample ID: MB-63874B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120931
Client ID: PBS	Batch ID: 63874	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930830
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead ND 5.0

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geocon Consultants, Inc.
Work Order: 111531
Project: I-5 N. Stockton R&M, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

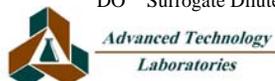
Sample ID: 111531-020A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120931						
Client ID: SB78-1	Batch ID: 63874	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930841						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.522	5.0						6.611	0	20	

Sample ID: 111531-020A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120931						
Client ID: SB78-1	Batch ID: 63874	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930842						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	219.821	5.0	250.0	6.611	85.3	34	126				

Sample ID: 111531-020A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120931						
Client ID: SB78-1	Batch ID: 63874	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930843						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	228.965	5.0	250.0	6.611	88.9	34	126	219.8	4.08	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 111531
Project: I-5 N. Stockton R&M, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-63875A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120933						
Client ID: PBS	Batch ID: 63875	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930851						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 5.0

Sample ID: LCS-63875	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120933						
Client ID: LCSS	Batch ID: 63875	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930852						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 268.953 5.0 250.0 0 108 80 120

Sample ID: 111531-030A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120933						
Client ID: SB81-2	Batch ID: 63875	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 3.811 5.0 6.203 0 20

Sample ID: 111531-030A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120933						
Client ID: SB81-2	Batch ID: 63875	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

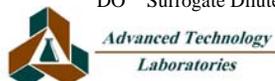
Lead 233.375 5.0 250.0 6.203 90.9 34 126

Sample ID: MB-63875B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120933						
Client ID: PBS	Batch ID: 63875	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930865						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.155 5.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 111531
Project: I-5 N. Stockton R&M, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

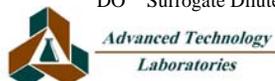
Sample ID: 111531-040A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120933						
Client ID: SB85-0	Batch ID: 63875	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930876						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	692.872	5.0						460.1	40.4	20	R

Sample ID: 111531-040A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120933						
Client ID: SB85-0	Batch ID: 63875	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930877						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	757.811	5.0	250.0	460.1	119	34	126				

Sample ID: 111531-040A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120933						
Client ID: SB85-0	Batch ID: 63875	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930878						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	779.473	5.0	250.0	460.1	128	34	126	757.8	2.82	20	S

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 111531
Project: I-5 N. Stockton R&M, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

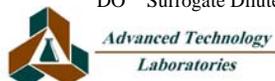
Sample ID: 111531-060A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120937						
Client ID: SB91-2	Batch ID: 63876	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.363	5.0						3.015	0	20	

Sample ID: 111531-060A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120937						
Client ID: SB91-2	Batch ID: 63876	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930941						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	181.480	5.0	250.0	3.015	71.4	34	126				

Sample ID: 111531-060A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/5/2010	RunNo: 120937						
Client ID: SB91-2	Batch ID: 63876	TestNo: EPA 6010B EPA 3050M		Analysis Date: 5/6/2010	SeqNo: 1930942						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	176.729	5.0	250.0	3.015	69.5	34	126	181.5	2.65	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 111531
Project: I-5 N. Stockton R&M, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: 111548-003ADUP	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 120874						
Client ID: ZZZZZZ	Batch ID: R120874	TestNo: EPA 9045C		Analysis Date: 5/4/2010	SeqNo: 1929564						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.140	0.10						8.070	0.864	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CHAIN OF CUSTODY RECORD

P 2062

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		FOR LABORATORY USE ONLY							
		P.O. #: _____ Logged By: _____ Date: _____		Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____		Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>			
Client: Geocon Consultants, Inc. Attention: Lauren Vigliotti			Address: 6671 Brisa Street City: Livermore State: CA Zip Code: 94550			Tel: 925-371-5900 Fax: 925-371-5915			
Project Name: I-5 N. Stockton R&M		Project #: E8477-06-01		Sampler: (Printed Name) C.M.		Sampler: (Signature) CHRIS MERRITT			
Relinquished by: (Signature and Printed Name) CHRIS MERRITT		Date: 4-29-10		Time: _____		Received by: (Signature and Printed Name) Mary M			
Relinquished by: (Signature and Printed Name)		Date: _____		Time: _____		Received by: (Signature and Printed Name)			
Relinquished by: (Signature and Printed Name)		Date: _____		Time: _____		Received by: (Signature and Printed Name)			
I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: Lauren Vigliotti 4/28/2010 Print Name Date CM FOR Signature		Send Report To: Attn: Same as above Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: Same as above Co: _____ Addr: _____ City: _____ State: _____ Zip: _____		Special Instructions/Comments: 10% random select for pH			
Sample/Records - Archival & Disposal Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report. Storage Fees (applies when storage is requested): ■ Sample :\$2.00 / sample /mo (after 45 days) ■ Records: \$1 /ATL workorder /mo (after 1 year)				Circle or Add Analysis(es) Requested 8081A (Pesticides) 8082 (PCB) 8260B (Volatiles) 8270C (BVA) 6010B (Total Metal) 8015B (GRO) / 8020 (BTX) 8015B (DRO) 8021 (BTX) TITLE 22 / CAM 17 (6010 / 7000) Total Lead (EPA 8010) 10% Random pH (EPA 9045) CAM 17 Metals 20% Random, no lead				SPECIFY APPROPRIATE MATRIX SOIL WATER GROUND WATER WASTEWATER	
LAB USE ONLY:		Sample Description							
Batch #:		Sample ID / Location							
Lab No.		Date		Time		Container(s)			
11531-31/33		4/29/2010		11:26:24		E 1 B P C			
-34/35		4/29/2010		11:24:33		E 1 B P C			
-37/39		4/29/2010		11:42:43		E 1 B P C			
-40/42		4/29/2010		11:49:50		E 1 B P C			
-43/45		4/29/2010		11:50:01		E 1 B P C			
-46/48		4/29/2010		12:06:17		E 1 B P C			
-49/51		4/29/2010		12:13:15		E 1 B P C			
-52/54		4/29/2010		12:18:19		E 1 B P C			
-55/57		4/29/2010		12:25:27		E 1 B P C			
-58/60		4/29/2010		12:31:33		E 1 B P C			
■ TAT starts 8AM the following day if samples received after 3 PM		TAT: A = <input type="checkbox"/> Overnight ≤ 24 hrs		B = <input type="checkbox"/> Emergency Next Workday		C = <input type="checkbox"/> Critical 2 Workdays			
		D = <input type="checkbox"/> Urgent 3 Workdays		E = <input type="checkbox"/> Routine 7 Workdays		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃			
		Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal							

Carmen Aguila

From: Fernando Diwa
Sent: Friday, April 30, 2010 5:13 PM
To: Carmen Aguila; Diane Galvan
Cc: Edric Caballero; Katherine Roura; Beth Alpante; Ed Caballero; Eddie Rodriguez; Edgar Morrison
Subject: FW: I-5 N. Stockton R&M, E8477-06-01

-----Original Message-----

From: Chris Merritt [mailto:merritt@geoconinc.com]
Sent: Friday, April 30, 2010 5:01 PM
To: Lauren Vigliotti; Fernando Diwa
Subject: RE: I-5 N. Stockton R&M, E8477-06-01

The SB72-2 with the 1120 time is the SB79-2. The second page listing of SB78-0,1,2 should actually be the SB88-0,1,2 sample.

-----Original Message-----

From: Lauren Vigliotti [mailto:vigliotti@geoconinc.com]
Sent: Friday, April 30, 2010 4:06 PM
To: 'Chris Merritt'
Subject: FW: I-5 N. Stockton R&M, E8477-06-01

Please see message below and OI also forwarded you a phone message from ATL regarding this project.
 Thanks!

Lauren

From: Fernando Diwa [mailto:fernando@atlglobal.com]
Sent: Friday, April 30, 2010 2:24 PM
To: vigliotti@geoconinc.com
Cc: Carmen Aguila; Diane Galvan
Subject: I-5 N. Stockton R&M, E8477-06-01

Hi Lauren,

This is to inform you that we received 2 samples labeled as SB72-2, collected on 4/28/10 @ 0901 and 1120, but no sample received for SB79-2, collected @ 1120. Also, samples SB78-0,1,2 listed twice in COCs (page 1 & 2). We received samples labeled as SB88-0,1,2 but not listed in COCs.

Please advise.

Regards,

Fernando Diwa
 Sample Control

**Advanced Technology Laboratories**

www.atlglobal.com
Tel: (562) 989-4045 ext. 236
Fax: (562) 989-4040

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Nevada and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

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May 25, 2010



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 768-9874
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 111531

RE: I-5 N. Stockton R&M, E8477-06-01

Attention: Lauren Vigliotti

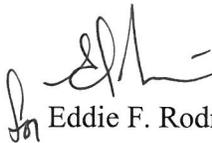
Enclosed are the results for sample(s) received on April 30, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,


Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

**LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111531
Project:	I-5 N. Stockton R&M, E8477-06-01	Date Received	4/30/2010 9:39:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111531-019A	SB78-0	ND	mg/L	64196	0.25	1	4/28/2010	5/24/2010
111531-023A	SB79-1	0.42	mg/L	64196	0.25	1	4/28/2010	5/24/2010
111531-025A	SB80-0	ND	mg/L	64196	0.25	1	4/28/2010	5/24/2010
111531-031A	SB82-0	ND	mg/L	64196	0.25	1	4/29/2010	5/24/2010
111531-034A	SB83-0	ND	mg/L	64196	0.25	1	4/29/2010	5/24/2010
111531-037A	SB84-0	ND	mg/L	64196	0.25	1	4/29/2010	5/24/2010
111531-040A	SB85-0	ND	mg/L	64196	0.25	1	4/29/2010	5/24/2010
111531-044A	SB86-1	ND	mg/L	64196	0.25	1	4/29/2010	5/24/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



**LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111531
Project:	I-5 N. Stockton R&M, E8477-06-01	Date Received	4/30/2010 9:39:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111531-023A	SB79-1	0.31	mg/L	64231	0.25	1	4/28/2010	5/20/2010
111531-031A	SB82-0	ND	mg/L	64231	0.25	1	4/29/2010	5/20/2010
111531-037A	SB84-0	ND	mg/L	64231	0.25	1	4/29/2010	5/20/2010
111531-040A	SB85-0	0.33	mg/L	64231	0.25	1	4/29/2010	5/20/2010
111531-044A	SB86-1	0.58	mg/L	64231	0.25	1	4/29/2010	5/20/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



CLIENT: Geocon Consultants, Inc.
Work Order: 111531
Project: I-5 N. Stockton R&M, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: MB-64196A	SampType: MBLK	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 5/19/2010	RunNo: 121410						
Client ID: PBS	Batch ID: 64196	TestNo: WET DI/ EPA WET		Analysis Date: 5/24/2010	SeqNo: 1940546						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25

Sample ID: LCS-64196	SampType: LCS	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 5/19/2010	RunNo: 121410						
Client ID: LCSS	Batch ID: 64196	TestNo: WET DI/ EPA WET		Analysis Date: 5/24/2010	SeqNo: 1940547						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 4.942 0.25 5.000 0 98.8 80 120

Sample ID: 111547-021A-DUP	SampType: DUP	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 5/19/2010	RunNo: 121410						
Client ID: ZZZZZ	Batch ID: 64196	TestNo: WET DI/ EPA WET		Analysis Date: 5/24/2010	SeqNo: 1940557						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25 0 0 20

Sample ID: 111547-021A-MS	SampType: MS	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 5/19/2010	RunNo: 121410						
Client ID: ZZZZZ	Batch ID: 64196	TestNo: WET DI/ EPA WET		Analysis Date: 5/24/2010	SeqNo: 1940558						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

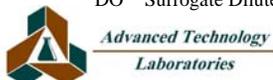
Lead 4.899 0.25 5.000 0 98.0 70 130

Sample ID: 111547-021A-MSD	SampType: MSD	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 5/19/2010	RunNo: 121410						
Client ID: ZZZZZ	Batch ID: 64196	TestNo: WET DI/ EPA WET		Analysis Date: 5/24/2010	SeqNo: 1940559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 4.909 0.25 5.000 0 98.2 70 130 4.899 0.204 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geocon Consultants, Inc.
Work Order: 111531
Project: I-5 N. Stockton R&M, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: 111531-044A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 5/20/2010	RunNo: 121350						
Client ID: SB86-1	Batch ID: 64231	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 5/20/2010	SeqNo: 1939350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.788	0.25	2.500	0.5834	88.2	70	130	2.753	1.27	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



*Advanced Technology
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Diane Galvan

From: Lauren Vigliotti [vigliotti@geoconinc.com]
Sent: Tuesday, May 18, 2010 2:08 PM
To: Diane Galvan
Subject: RE: Additional Results/EDD - I-5 N. Stockton R&M (111531)

Hi Diane: Please run for soluble lead as follows, standard TAT. Thanks!

SampID	TCLP	DI
SB78-0		X
SB79-1 12	X	X
SB80-0		X
SB82-0 6.1	X	X
SB83-0		X
SB84-0	X	X
SB85-0	X	X
SB86-1 29	X	X

Lauren Vigliotti
Senior Staff Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc

6671 Brisa Street
Livermore, CA 94550
Tel (925) 371-5900
Cell (925) 768-9874



GEOTECHNICAL ENVIRONMENTAL MATERIALS

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May 14, 2010



Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 768-9874
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 111531

RE: I-5 N. Stockton R&M, E8477-06-01

Attention: Lauren Vigliotti

Enclosed are the results for sample(s) received on April 30, 2010 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie F. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

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CLIENT: Geocon Consultants, Inc.
Project: I-5 N. Stockton R&M, E8477-06-01
Lab Order: 111531

CASE NARRATIVE

Analytical Comments for Method 7420

Dilution was necessary for samples 111531-019A, 111531-023A, 111531-025A, 111531-034A, 111531-037A, 111531-040A and 111531-044A, due to sample matrix.



LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	111531
Project:	I-5 N. Stockton R&M, E8477-06-01	Date Received	4/30/2010 9:39:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
111531-019A	SB78-0	9.9	mg/L	63987	0.50	2	4/28/2010	5/12/2010
111531-023A	SB79-1	12	mg/L	63987	0.50	2	4/28/2010	5/12/2010
111531-025A	SB80-0	12	mg/L	63987	0.50	2	4/28/2010	5/12/2010
111531-028A	SB81-0	3.8	mg/L	63987	0.25	1	4/28/2010	5/12/2010
111531-031A	SB82-0	6.1	mg/L	63987	0.25	1	4/29/2010	5/12/2010
111531-034A	SB83-0	12	mg/L	63987	0.50	2	4/29/2010	5/12/2010
111531-037A	SB84-0	14	mg/L	63987	0.50	2	4/29/2010	5/12/2010
111531-040A	SB85-0	38	mg/L	63987	2.5	10	4/29/2010	5/12/2010
111531-044A	SB86-1	29	mg/L	63987	2.5	10	4/29/2010	5/12/2010

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



CLIENT: Geocon Consultants, Inc.
Work Order: 111531
Project: I-5 N. Stockton R&M, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: MB-63987A	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 5/10/2010	RunNo: 121094						
Client ID: PBS	Batch ID: 63987	TestNo: WET/ EPA 74 WET		Analysis Date: 5/12/2010	SeqNo: 1933971						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25

Sample ID: LCS-63987	SampType: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 5/10/2010	RunNo: 121094						
Client ID: LCSS	Batch ID: 63987	TestNo: WET/ EPA 74 WET		Analysis Date: 5/12/2010	SeqNo: 1933972						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 4.896 0.25 5.000 0 97.9 80 120

Sample ID: 111546-004A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 5/10/2010	RunNo: 121094						
Client ID: ZZZZZ	Batch ID: 63987	TestNo: WET/ EPA 74 WET		Analysis Date: 5/12/2010	SeqNo: 1933983						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 9.837 0.50 9.689 1.52 20

Sample ID: 111546-004A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 5/10/2010	RunNo: 121094						
Client ID: ZZZZZ	Batch ID: 63987	TestNo: WET/ EPA 74 WET		Analysis Date: 5/12/2010	SeqNo: 1933984						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

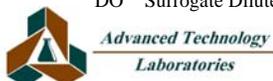
Lead 15.185 0.50 5.000 9.689 110 80 120

Sample ID: MB-63987B	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 5/10/2010	RunNo: 121094						
Client ID: PBS	Batch ID: 63987	TestNo: WET/ EPA 74 WET		Analysis Date: 5/12/2010	SeqNo: 1933985						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geocon Consultants, Inc.
Work Order: 111531
Project: I-5 N. Stockton R&M, E8477-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

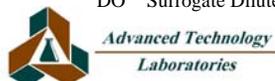
Sample ID: 111546-023A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 5/10/2010	RunNo: 121094						
Client ID: ZZZZZZ	Batch ID: 63987	TestNo: WET/ EPA 74 WET		Analysis Date: 5/12/2010	SeqNo: 1933990						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.439	0.25						2.446	0.277	20	

Sample ID: 111546-023A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 5/10/2010	RunNo: 121094						
Client ID: ZZZZZZ	Batch ID: 63987	TestNo: WET/ EPA 74 WET		Analysis Date: 5/12/2010	SeqNo: 1933991						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.221	0.25	5.000	2.446	95.5	80	120				

Sample ID: 111546-023A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 5/10/2010	RunNo: 121094						
Client ID: ZZZZZZ	Batch ID: 63987	TestNo: WET/ EPA 74 WET		Analysis Date: 5/12/2010	SeqNo: 1933992						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.290	0.25	5.000	2.446	96.9	80	120	7.221	0.959	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



Diane Galvan

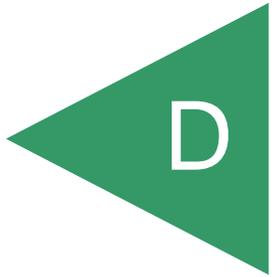
From: Livermore Office (Rick Day) [day@geoconinc.com]
Sent: Friday, May 07, 2010 11:01 AM
To: Diane Galvan; vigliotti@geoconinc.com
Cc: livermore@geoconinc.com
Subject: RE: Results/EDD - I-5 N. Stockton R&M (111531)

Thanks Diane –

Please run WET Lead on samples with Total Lead > 50 mg/kg.

Rick.

APPENDIX

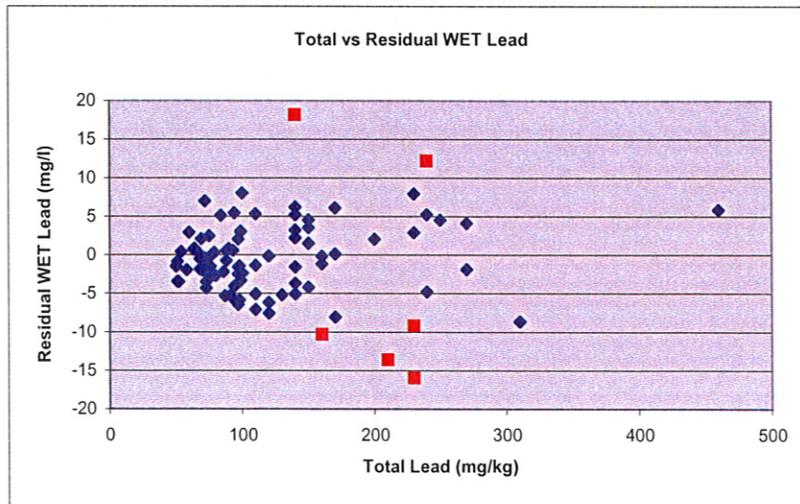
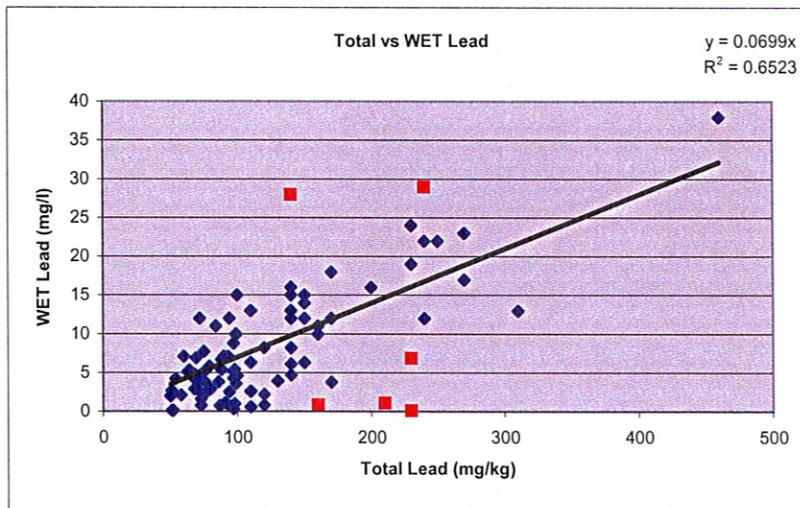


APPENDIX D - LEAD REGRESSION ANALYSIS

Sample ID	Total Lead (mg/kg)	WET Lead (mg/l)	Residual WET Lead (mg/l)	Squared Residual WET Lead (mg/l)
SB70-0	79	5.8	0.28	0.077661
MB79-0	88	6.7	0.55	0.302
SB58-0	54	4.2	0.43	0.181
MB2-0	93	7.1	0.60	0.360
MB88-0	68	4.8	0.05	0.002
SB22-0	77	5.4	0.02	0.000
SB4-0	90	7.1	0.81	0.66
SB14-0	63	5.1	0.70	0.49
SB60-1	64	5.3	0.83	0.68
SB47-0	170	12	0.12	0.01
SB79-1	170	12	0.12	0.01
SB68-0	120	8.2	-0.19	0.03
SB66-0	72.0	4.6	-0.43	0.19
SB64-0	68	4.2	-0.55	0.31
WB21-0	160	11	-0.18	0.03
SB11-0	150	12	1.52	2.30
SB16-0	51	2.7	-0.86	0.75
MB91-0	88	5.4	-0.75	0.56
MB83-0	200	16	2.02	4.09
MB19-0	73	4.0	-1.10	1.21
SB17-0	97	8.8	2.02	4.08
SB2-0	140	12	2.22	4.91
MB96-0	50	2.0	-1.49	2.23
SB18-2	69	6.9	2.08	4.32
SB81-0	76	3.8	-1.51	2.29
SB59-0	110	6.3	-1.39	1.93
MB78-0	160	10	-1.18	1.40
MB107-0	98	5.4	-1.45	2.10
WB19-0	230	19	2.93	8.56
SB51-0	97	5.2	-1.58	2.49
SB49-0	68	2.9	-1.85	3.43
MB90-0	75	7.7	2.46	6.04
SB60-0	140	8.2	-1.58	2.51
MB98-0	58	2.1	-1.95	3.82
MB95-0	70	2.9	-1.99	3.97
SB78-0	99	9.9	2.98	8.89
MB108-0	86	3.8	-2.21	4.89
MB82-0	140	13	3.22	10.34
SB13-0	60	7.1	2.91	8.45
SB12-0	99	10	3.08	9.49
MB94-0	100	4.6	-2.39	5.71
SB84-0	150	14	3.52	12.37
SB23-0	97	4.3	-2.48	6.15
WB20-0	270	23	4.13	17.05
MB93-0	270	17	-1.87	3.50
MB106-0	80	2.9	-2.69	7.24
MB103-0	75	2.2	-3.04	9.25
SB67-0	250	22	4.53	20.50
MB111-0	51	0.125	-3.44	11.83
SB62-0	52	0.125	-3.51	12.32
MB24-0	99	3.6	-3.32	11.02
MB109-0	73	1.6	-3.50	12.26
SB7-0	150	15	4.52	20.40
SB85-0	460	38	5.85	34.23
SB65-0	240	22	5.23	27.31
SB82-0	140	6.1	-3.68	13.58
WB1-0	94	2.5	-4.07	16.56
MB77-0	73	0.79	-4.31	18.59
SB5-0	140	15	5.22	27.20
SB20-0	84	11	5.13	26.31
MB97-0	150	6.3	-4.18	17.50
SB10-0	110	13	5.31	28.22
SB83-0	94	12	5.43	29.49
SB3-0	170	18	6.12	37.44
MB102-0	110	2.6	-5.09	25.89

APPENDIX D - LEAD REGRESSION ANALYSIS

Sample ID	Total Lead (mg/kg)	WET Lead (mg/l)	Residual WET Lead (mg/l)	Squared Residual WET Lead (mg/l)
SB6-0	140	16	6.22	38.63
WB7-0	91	1.1	-5.26	27.67
MB80-0	140	4.7	-5.08	25.85
WB6-0	87	0.76	-5.32	28.31
MB105-0	130	3.9	-5.19	26.89
MB100-0	240	12	-4.77	22.79
WB4-0	94	0.69	-5.88	34.57
WB16-0	98	0.97	-5.88	34.57
SB80-0	72	12	6.97	48.55
MB86-0	120	2.2	-6.19	38.28
MB114-0	97	0.32	-6.46	41.72
MB92-0	230	24	7.93	62.81
SB61-0	110	0.59	-7.10	50.38
MB1-0	100	15	8.01	64.18
WB3-0	120	0.84	-7.55	56.95
SB53-0	170	3.8	-8.08	65.31
SB55-0	310	13	-8.67	75.10
Not Used				
SB56-0	230	6.9	-9.17	84.18
SB57-0	160	0.85	-10.33	106.76
SB86-1	240	29	12.23	149.48
SB63-0	210	1.1	-13.58	184.33
MB109-1	230	0.125	-15.95	254.39
SB69-0	140	28	18.22	331.80



APPENDIX D - LEAD UCLs

A1-0					A2-0				
Number	of	Valid	Observations	6	Number	of	Valid	Observations	17
Number	of	Distinct	Observations	5	Number	of	Distinct	Observations	14
Minimum	21				Minimum	8.3			
Maximum	460				Maximum	170			
Mean	159.8				Mean	92.02			
Median	117				Median	91			
SD	154				SD	5233			
Variance	23707				Variance	2739			
Coefficient	of	Variation	0.0963		Coefficient	of	Variation	0.569	
Skewness	1.955				Skewness	-0.246			
Mean	of	log	data	4.702	Mean	of	log	data	4.251
SD	of	log	data	0.999	SD	of	log	data	0.901
90%	Standard	Bootstrap	UCL	233.5	90%	Standard	Bootstrap	UCL	108.1
95%	Standard	Bootstrap	UCL	251.8	95%	Standard	Bootstrap	UCL	111.4
A1-1					A2-1				
Number	of	Valid	Observations	4	Number	of	Valid	Observations	14
Number	of	Distinct	Observations	4	Number	of	Distinct	Observations	12
Minimum	2.5				Minimum	2.5			
Maximum	10				Maximum	25			
Mean	6.6				Mean	11.22			
					Median	9.6			
					SD	8.145			
					Variance	66.34			
					Coefficient	of	Variation	0.729	
					Skewness	0.651			
					Mean	of	log	data	2.127
					SD	of	log	data	0.839
					90%	Standard	Bootstrap	UCL	13.89
					95%	Standard	Bootstrap	UCL	14.74
A1-2					A2-2				
Number	of	Valid	Observations	4	Number	of	Valid	Observations	14
Number	of	Distinct	Observations	3	Number	of	Distinct	Observations	4
Minimum	2.5				Minimum	2.5			
Maximum	8				Maximum	43			
Mean	4.95				Mean	6.086			
					Median	2.5			
					SD	10.79			
					Variance	116.5			
					Coefficient	of	Variation	1.774	
					Skewness	3.555			
					Mean	of	log	data	1.268
					SD	of	log	data	0.817
					90%	Standard	Bootstrap	UCL	9.585
					95%	Standard	Bootstrap	UCL	10.5

APPENDIX D - LEAD UCLs

B-0					C-0				
Number	of	Valid	Observations	17	Number	of	Valid	Observations	19
Number	of	Distinct	Observations	13	Number	of	Distinct	Observations	11
Minimum	2.5				Minimum	2.5			
Maximum	97				Maximum	170			
Mean	35.01				Mean	40.26			
Median	24				Median	15			
SD	34.74				SD	55.22			
Variance	1207				Variance	3049			
Coefficient	of	Variation	0.992		Coefficient	of	Variation	1.372	
Skewness	0.788				Skewness	1.571			
Mean	of	log	data	2.849	Mean	of	log	data	2.56
SD	of	log	data	1.394	SD	of	log	data	1.672
90%	Standard	Bootstrap	UCL	45.65	90%	Standard	Bootstrap	UCL	56.14
95%	Standard	Bootstrap	UCL	48.14	95%	Standard	Bootstrap	UCL	60.47
B-1					C-1				
Number	of	Valid	Observations	15	Number	of	Valid	Observations	16
Number	of	Distinct	Observations	8	Number	of	Distinct	Observations	8
Minimum	2.5				Minimum	2.5			
Maximum	240				Maximum	41			
Mean	21.84				Mean	8.031			
Median	2.5				Median	2.5			
SD	60.61				SD	10.28			
Variance	3674				Variance	105.7			
Coefficient	of	Variation	2.775		Coefficient	of	Variation	1.28	
Skewness	3.817				Skewness	2.56			
Mean	of	log	data	1.773	Mean	of	log	data	1.595
SD	of	log	data	1.276	SD	of	log	data	0.922
90%	Standard	Bootstrap	UCL	41.28	90%	Standard	Bootstrap	UCL	11.15
95%	Standard	Bootstrap	UCL	46.73	95%	Standard	Bootstrap	UCL	12.16
B-2					C-2				
Number	of	Valid	Observations	15	Number	of	Valid	Observations	16
Number	of	Distinct	Observations	5	Number	of	Distinct	Observations	5
Minimum	2.5				Minimum	2.5			
Maximum	69				Maximum	21			
Mean	9.08				Mean	5.094			
Median	2.5				Median	2.5			
SD	17.14				SD	4.996			
Variance	293.7				Variance	24.96			
Coefficient	of	Variation	1.887		Coefficient	of	Variation	0.981	
Skewness	3.482				Skewness	2.563			
Mean	of	log	data	1.495	Mean	of	log	data	1.358
SD	of	log	data	1	SD	of	log	data	0.673
90%	Standard	Bootstrap	UCL	14.55	90%	Standard	Bootstrap	UCL	6.601
95%	Standard	Bootstrap	UCL	16.12	95%	Standard	Bootstrap	UCL	7.13

APPENDIX D - LEAD UCLs

D-0

Number	of	Valid	Observations	28
Number	of	Distinct	Observations	22
Minimum	2.5			
Maximum	310			
Mean	127.2			
Median	110			
SD	82.62			
Variance	6826			
Coefficient	of	Variation	0.65	
Skewness	0.612			
Mean	of	log	data	4.532
SD	of	log	data	1.01
90%	Standard	Bootstrap	UCL	147.1
95%	Standard	Bootstrap	UCL	153.2

D-1

Number	of	Valid	Observations	22
Number	of	Distinct	Observations	20
Minimum	2.5			
Maximum	170			
Mean	23.1			
Median	9.7			
SD	36			
Variance	1296			
Coefficient	of	Variation	1.559	
Skewness	3.577			
Mean	of	log	data	2.548
SD	of	log	data	1.017
90%	Standard	Bootstrap	UCL	32.81
95%	Standard	Bootstrap	UCL	35.84

D-2

Number	of	Valid	Observations	22
Number	of	Distinct	Observations	15
Minimum	2.5			
Maximum	35			
Mean	9.527			
Median	8.15			
SD	7.869			
Variance	61.92			
Coefficient	of	Variation	0.826	
Skewness	1.762			
Mean	of	log	data	1.946
SD	of	log	data	0.823
90%	Standard	Bootstrap	UCL	11.58
95%	Standard	Bootstrap	UCL	12.24

APPENDIX D - As, V, and TPH UCLs

Sample ID	As	V		
WB1-0	4.0	36	As-1	
WB10-0	2.4	28		
WB11-0	3.0	44	Number of Valid Observations	16
WB12-0	2.4	48	Number of Distinct Observations	10
WB13-0	3.1	46	Minimum	2.2
WB14-0	2.1	43	Maximum	5.4
WB15-0	2.2	33	Mean	3.594
WB16-0	4.1	38	Median	3.4
WB17-0	4.0	40	SD	0.839
WB18-0	2.4	40	Variance	0.703
WB19-0	3.3	33	Coefficient of Variation	0.233
WB2-0	3.4	39	Skewness	0.614
WB20-0	3.1	34	Mean of log data	1.254
WB21-0	3.8	40	SD of log data	0.233
WB3-0	5.1	43	90% Standard Bootstrap UCL	3.856
WB4-0	5.4	48	95% Standard Bootstrap UCL	3.931
WB5-0	3.1	45		
WB6-0	3.8	37	V-1	
WB7-0	3.1	30		
WB8-0	3.3	39	Number of Valid Observations	16
WB9-0	3.4	41	Number of Distinct Observations	12
			Minimum	30
			Maximum	48
			Mean	38.5
			Median	39
			SD	4.676
			Variance	21.87
			Coefficient of Variation	0.121
			Skewness	0.143
			Mean of log data	3.644
			SD of log data	0.122
			90% Standard Bootstrap UCL	39.95
			95% Standard Bootstrap UCL	40.36
Sample ID	TPHd	TPHmo		
WB17-0	4.3	16		
WB18-0	7.0	33		
WB4-0	9.3	41		
WB9-0	9.4	44		
WB5-0	10	64		
WB13-0	11	65		
WB6-0	21	110		
WB3-0	30	170		
WB14-0	38	130		
WB7-0	40	270		
WB11-0	43	200		
WB8-0	56	280		
WB19-0	65.0	390		
WB2-0	80	560		
WB21-0	89.0	560		
WB12-0	95	630		
WB20-0	95.0	540		
WB10-0	100	790		
WB1-0	140	770		
WB16-0	150.0	870		
WB15-0	200.0	1,200		
TPHd-1			TPHmo-1	
Number of Valid Observations			Number of Valid Observations	16
Number of Distinct Observations			Number of Distinct Observations	15
Minimum	4.3		Minimum	16
Maximum	200		Maximum	1200
Mean	62.88		Mean	369.9
Median	48		Median	275
SD	59.35		SD	353.4
Variance	3523		Variance	124876
Coefficient of Variation	0.944		Coefficient of Variation	0.955
Skewness	1.022		Skewness	0.986
Mean of log data	3.574		Mean of log data	5.276
SD of log data	1.227		SD of log data	1.343
90% Standard Bootstrap UCL	80.9		90% Standard Bootstrap UCL	479.9
95% Standard Bootstrap UCL	87.01		95% Standard Bootstrap UCL	510